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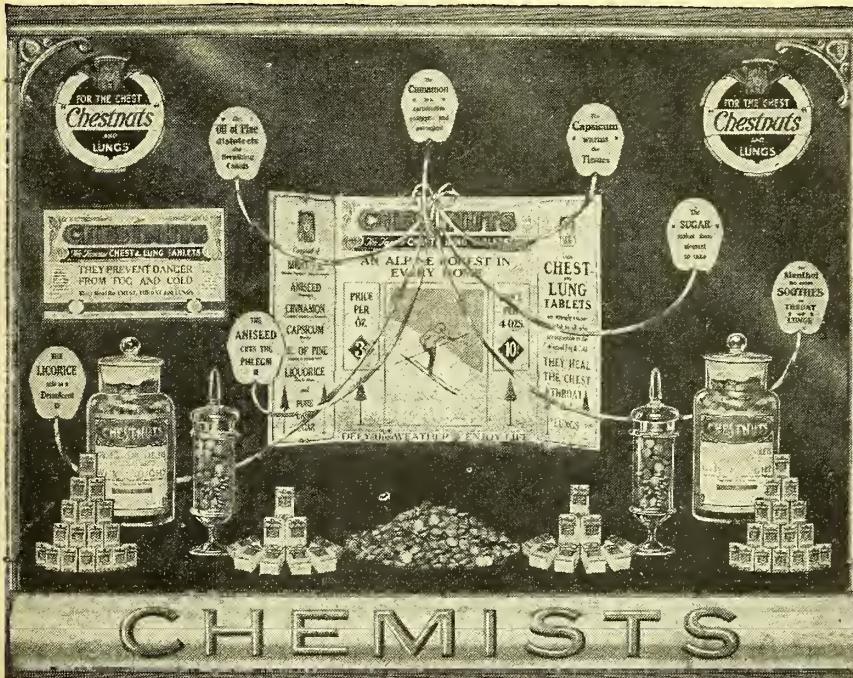
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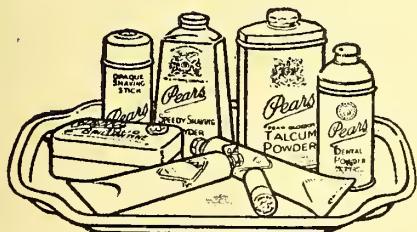
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# Maw's Page



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The newest and most popular feature of design in Maw's shaving brushes is the vulcanite base, and in view of this we are introducing a new "Meritor" shaver fitted with a vulcanite base.

As may be seen in the illustration, it is an attractive looking brush which stands firmly on its base, and has no corners, or crevices to harbour dirt. It is smart, serviceable and hygienic, and the shape of the handle affords a good grip.

Supplied in medium size only, in three fillings.

### PRICES :

	Wholesale	Minimum Retail
Pure Badger	132/- per doz.	16/6 each.
Badger & Bristle	84/- "	10/6 "
Lily White Hog	48/- "	6/- "



S. Maw, Son & Sons, Ltd.  
Aldersgate St., London,  
and Barnet.



Telephone:  
**City. 7**  
Private  
Branch  
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Telegrams:  
**Eleven**  
**Cent**  
London

Cables: **Eleven**  
London  
Code: **A.B.C.**  
4<sup>th</sup> & 5<sup>th</sup>  
Edition

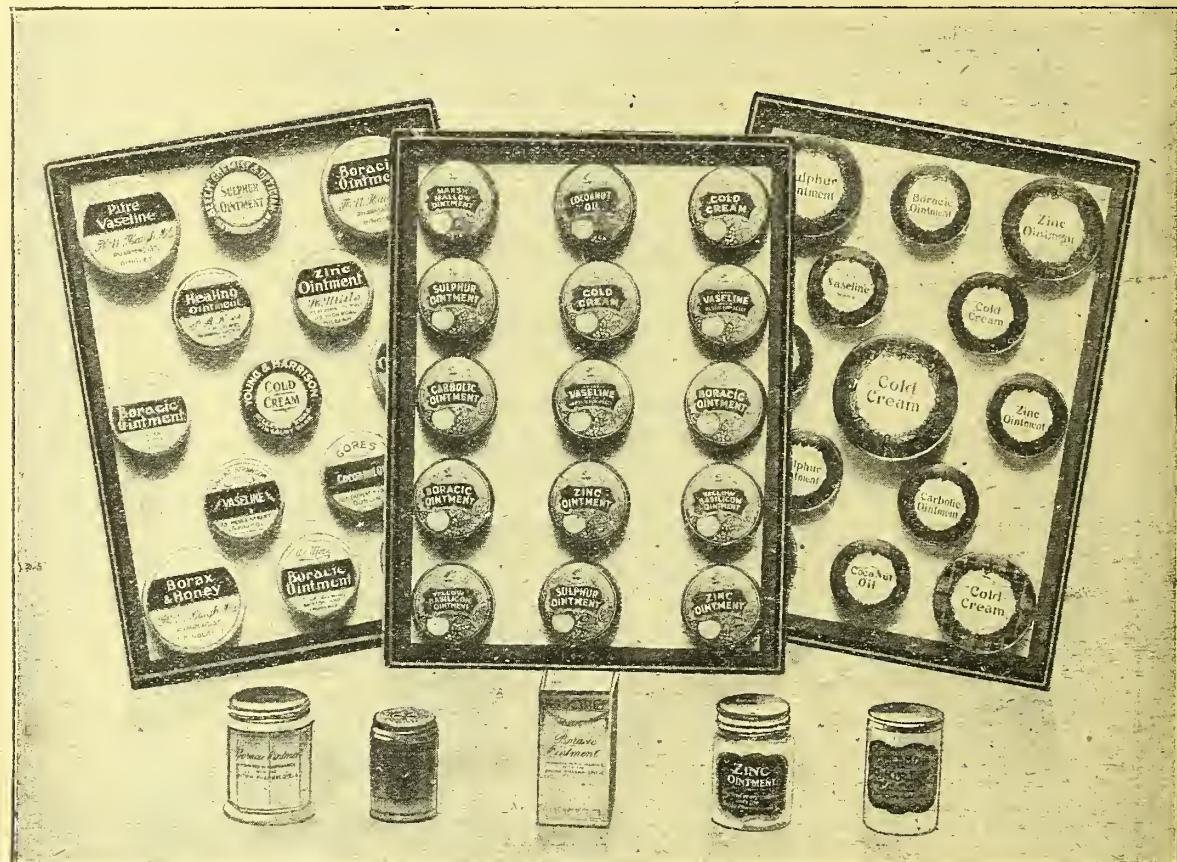
# THE STANDARD BEST POSSIBLE.

In bulk or beautiful decorated tins. Quick selling—profitable.

# "SPUN" OINTMENTS

Regd. Trade Mark.

ARE SENT TO ALL PARTS OF THE GLOBE



## **QUOTATIONS AND SAMPLES ON APPLICATION**

Tins can be printed with name and address in assorted quantities that any Chemist can easily sell. Special quotations for large quantity buyers. We pack everything necessary to a Chemist's business.

# **ROBERT BLACKIE**

**SOLE PROPRIETOR AND MANUFACTURER OF "SPUN" OINTMENTS,  
Shen Works, Tower Bridge Road, LONDON, S.E.1**  
*Telephone t. HOP 2415.* *Telegrams: "USHENSPLINA" LONDON.*

# WOOLLEY'S LYSOL

ANTISEPTIC—DISINFECTANT.



Woolley's Lysol is a powerful Antiseptic Disinfectant, practically free from Carbolic Acid, but as a Bactericide  $2\frac{1}{2}$  times as strong.

Being concentrated it is economical and inexpensive; it is soluble in all proportions in alcohol, chloroform, ether and water, and forms a *clear* disinfectant fluid.

Woolley's Lysol is not destructive to clothing, does not corrode instruments; whilst in the strength used for disinfecting and for bathing it *does not irritate or cause smarting*.

4 oz.	8 oz.	16 oz.	32 oz.	$\frac{1}{2}$ gall.	1 gall.
1/0 ..	1/9 ..	3/0 ..	4/9 ..	7/6 ..	12/6 retail.
7/0 ..	12/0 ..	20/0 ..	32/6 ..	60/0 ..	99/0 per doz.
6/6 ..	11/0 ..	18/6 ..	30/0 ..	2 gross 1/0 size or equivalent.	

## PHENATE OF SODA SOLUTION

THE IDEAL TOILET ANTISEPTIC.

Invaluable as a Mouth Wash and for allaying tenderness of the gums after Teeth Extraction.

ANTISEPTIC and ASTRINGENT.



A Dentist writes: "I have found it invaluable in dental practice for syringing the sockets after removal of teeth which have been subject to an acute attack of *periostitis*; the strength used is one part of the solution to 15 parts of hot water, the relief from intense pain being instantaneous."

MINIMUM RETAIL PRICE P.A.T.A.—

5 oz.	10 oz.	20 oz.	40 oz.	80 oz.
1/6	2/9	4/6	7/0	12/6 each.

TRADE PRICE—

5 oz.	10 oz.	20 oz.	40 oz.	80 oz.
13/6	24/0	39/0	60/0	104/0 doz.

Carriage paid on orders of £5.

JAMES WOOLLEY, SONS & CO., LTD.  
MANCHESTER

**5% Bonus**  
On All Direct Retail Orders

for

**VIROL**

and

**ViroLax**

from

**1st September**

to

**15th October**

*The Bonus is strictly limited  
to orders placed not later  
than the 15th October.*

*Look out for full particulars now being  
posted to all customers.*

VIROL LIMITED, HANGER LANE, EALING, LONDON, W.5.

# PINETTES

(REGD.)

the

## WINTER SELLER

for which you should contract

# NOW

The PINE LOZENGE which has been known to the Chemist and Public for 25 years and holds premier place in the Public Fancy because of its fragrancy, appearance and efficacy.

TINS (1½ oz.) 4/- per dozen ... (3 ozs.) 6/9 per dozen  
 A handsomely designed airtight tin—it is risky to stock Pine Lozenges in cardboard containers.

*In bulk :*

Quantity	1 lb.	14 lbs.	28 lbs.	56 lbs.	1 cwt.
Price per lb.	2/1	2/-	1/11	1/10	1/9

PACKED IN AIRTIGHT CONTAINERS  
 with a gratis supply of finely designed cartons on the  
 following scale : —      50      100      200      400

**GLASGOW EXHIBITION  
STANDS**

**35      36      44      45**

**AYRTON, SAUNDERS & CO. LTD.**

**Manufacturing Chemists :: Hanover St., LIVERPOOL**

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# The 'ESSENFLOUR PRODUCTS Ltd.'

*Distillers of Essential Oils and  
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**MYSORE - - S. India**

have been appointed as from the 1st Sept.,  
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## **MYSORE GOVT. SANDALWOOD OIL**

Satisfying all pharmacopœia and possessing an excellent aroma.

*Samples and prices will be readily supplied  
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**Aromatic Chemicals      Flower Oils  
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**THE "D & O" BRAND**

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OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT,  
SASSAFRAS, ETC.

BALSAMS of Copaiba, Peru, Tolu.

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# SIX NEW “DISTOL” OTTOS

THE continued popularity of “Distol” Ottos, which enable the Pharmacist to offer genuine spirit perfumes at “substitute alcohol” prices, has encouraged us to make further experiments, resulting in the production of several new “Distols” which bring the grand total up to forty-six titles.

**APPLE BLOSSOM**

**HYACINTH**

**SCOTS VIOLET**

**BEAN BLOSSOM**

**LOTUS BLOSSOM**

**INCENSE**

} Delightful and lasting floral odours.

} Variants of the Eastern types of heavy clinging perfume.

An ounce of any of these Ottos costs 7/6 and makes 81 ounces of perfumery of distinction by the mere addition of S.V.R. and Aqua Dest. The Perfume is ready for immediate use.

If you do not already use “Distols” you are invited to write on your business paper for a free sample set of perfumes made under ordinary commercial conditions from these or any other six “Distol” Ottos.

**THOMAS KERFOOT & CO LTD**  
BARDSTLE VALE, LANCASHIRE,  
& Bardsley House, London, N.1  
ESTABLISHED 1797.

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Before ordering your  
Christmas stocks of

# EAU DE COLOGNES AND LAVENDER WATERS

we advise you to write us  
for particulars of our new  
Watch-shape flask series, in  
 $\frac{1}{2}$  oz., 1 oz., and 2 oz. sizes.

They are admitted by large  
numbers of our customers to  
be the smartest and, for  
their quality, the cheapest  
lines on the market.

## THEY SELL AT SIGHT AND BRING REPEAT ORDERS

They mean good profits for  
you and good value for the  
customer.

We are now booking orders for  
delivery in October.

*Write for prices and  
full particulars to :*

## SPURWAY ET CIE, LTD.

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LONDON, E.C.

CANNES-GRASSE  
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## JAKSON'S PEPPERMINT, LAVENDER & CAMOMILE OILS are the BEST.

Produced and Prepared by  
THE LARGEST GROWERS & DISTILLERS  
IN ENGLAND.

*Distillery :*  
J. JAKSON & CO. (Mitcham Rd., 1921), LTD.  
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*AGENTS for the U.K.:*  
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*Established 1795.*

## LAUTIER FILS

Works : GRASSE (France) & BEYRUT (Syria).

Essential Oils —————— Synthetics.  
All Raw Materials for Perfumery.

Absinth	Laurel
Almond, bitter,	Lavender
Angelica [S.A.P.]	Lemon
Basil	Mace
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Bois de Rose femelle	Orange
Cajuput	Otto de Rose
Caraway	Patchouli
Cinnamon	Peppermint
Cloves	Rosemary
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Costus	Sandalwood
Cubeb	Spike Lavender
Fennel	Tansy
Geranium	Tarragon
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Olive, Peach Kernel, Sweet Almond Oils  
Floral Waters.

*Wholesale and Export only.*

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*ALL Pharmacists are cordially invited to inspect our magnificent display of Perfumes and Toilet Articles at STANDS 1, 2 and 3 at the Chemists' Exhibition which is being held at St. Andrew's Hall, Glasgow, from September 17 to 21 inclusive.*

# POTTER & MOORE'S PURPLE HEATHER

*The sweet breath of the moors!*

"When I came to the bend of the road I think my heart stood still for a second or two. There in front of me and to my left—almost, as it seemed, at my feet—were the heather-covered moors, gloriously purple, and the tears came into my eyes. I could not help it, it was so unexpected, and it unlocked too suddenly the chamber where a memory was preserved. . . ."

"Years ago, and long before his sufferings ended, my father was leaning back in his chair one day . . . when there came into his eyes a look of inexpressible longing. . . . I went and knelt by his side . . . and asked 'What is it, Dad, dear?' He . . . answered sadly, it was little more than a whisper, for he was very weak, 'It was the heather calling me, lassie, I felt its sweet breath upon my cheek for a moment and longed to fall on its comfortable breast.'"

"WINDYRIDGE," by W. RILEY.

POTTER &  
MOORE'S  
Purple  
Heather is a  
perfume of  
surpassing  
sweetness and  
delicacy.



PRICES ON APPLICATION

POTTER & MOORE are the Makers of the celebrated **1749 Mitcham Lavender Water** which is known and appreciated throughout the World.

**POTTER & MOORE** (<sup>Established</sup> 1749), THE LAVENDER DISTILLERY,  
MITCHAM, SURREY.

*Sole Proprietors:*

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LONDON, E.8.

*Sole Scottish Agents for Perfumery Products:*

Messrs. MUNRO, McLAREN & SUTHERLAND - - - GLASGOW.

Write for a  
small testing  
sample of  
Purple  
Heather and  
judge for  
yourself.

# Ashes of Roses

(BOURJOIS-PARIS)

## OUR APPRECIATION

We are very grateful to our numerous friends all over the Country who have written to congratulate us on the *Ashes of Roses* Folder. The enthusiastic reception the folder has received assures us that full use will be made of the portion that has been specially designed as a Window Display bill. It is our desire to give you 100% service, and the many letters we have received makes that service a pleasure.

**HAVE YOU RECEIVED YOUR FOLDER  
GIVING PARTICULARS OF OUR CAMPAIGN  
BONUS OFFERS**

**OFFER No. 1**

On all orders of £5 Assorted

*Ashes of Roses*

Preparations (exclusive of Miniatures and Introductory Sets) we shall present

**FREE OF CHARGE**

1 doz. large Poudre de Riz de Java, retails for 15/-, and a full supply of Showcards.

Your Profit equals 65%

**OFFER No. 2**

On all orders of £10 Assorted

*Ashes of Roses*

Preparations (exclusive of Miniatures and Introductory Sets) we shall present

**FREE OF CHARGE**

2 doz. large Poudre de Riz de Java, 1 doz. *Ashes of Roses* Miniature Perfumes, retails for 42/-, and a full Window Display.

Your Profit equals 70%

**ORDERS ARE BEING DEALT WITH IN  
STRICT ROTATION.**

**FILL IN YOUR ORDER FORM & POST—NOW.**

**IMPORTANT.**

Please note change in price of Miniature size perfumes.  
Price per dozen .. 8/- Retailed P.A.T.A. .. 1/-

**A. BOURJOIS et CIE, Ltd., 66 Carter Lane, E.C.4.**

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## The Original and Best SOLID EAU DE COLOGNE

has many imitators but no equal.

*Its elegance and utility appeal to all.*

Made from the finest Eau de Cologne. Refreshing when rubbed on the forehead, pleasant as a smelling bottle, invaluable in a heated atmosphere and when travelling. A real acquisition to every household. Excellent after shaving. A boon to those in hospital.

Retails at 3s. 6d. Minimum (P.A.T.A.) Per doz. **32/-**

**SPECIAL TERMS FOR BONDED SHIPMENT OF 4 gross minimum.**

## SOLID ENGLISH LAVENDER

TERMS AS FOR FROZOCCLONE.

Similar size and packing as "FROZOCCLONE" but in BLUE glass.



### THE IDEAL FRUITY LAXATIVE

In Pastille form. Delicious, Reliable, Effective.

Retails at **2s. 3d.** minimum. Per dozen **21s.**

REDUCED PRICES FOR EXPORT.



### THE NAIL POLISH

with new and distinctive features.  
Softens the cuticle. Brilliant polish.

Retails **1s. 9d.** Per dozen **15s.**

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TRADE MARK

# DEARBORN (1923) LTD.

37 Gray's Inn Road,  
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## Toilet Specialties.

	Price per doz.	Selling Price to Retailer P.A.T.A
PILENTA SOAP ...	10/-	1/-
A complexion soap.		
PROLACTUM ...	10/-	1/-
For the lips.		
PARSIDIUM JELLY ...	10/-	1/-
For wrinkles.		
ALLACITE OF ORANGE BLOSSOM ...	22/6	2/6
A dressing cream.		
BORANIUM ...	22/6	2/6
A hair tonic.		
CLEMINITE ...	22/6	2/6
For a face lotion.		
COLLIANDUM ...	22/6	2/6
For a face tint.		
PERGOL ...	22/6	2/6
A deodorant.		
TEKKO PASTE ...	22/6	2/6
Camphor cream.		
STALLAX ...	22/6	2/6
For a shampoo.		
JETTALINE ...	31/6	3/6
For clearing the skin.		
PHEMINOL ...	36/-	4/-
A depilatory.		
MENNALINE ...	36/-	4/-
For the eyelashes.		
MERCOLIZED WAX ...	31/6	3/6
A face cream.		
STYML ...	36/-	4/-
For oily complexions and blackheads.		
SILMERINE ...	22/6	2/6
Hair-curling fluid.		
BARSYDE ...	22/6	2/6
Dandruff eradicator.		
TAMMALITE ...	22/6	2/6
For grey and faded hair.		
LIQUID PERGOL ...	31/6	3/6
To check excessive perspiration locally.		
BICROLIUM ...	22/6	2/6
For whitening the hands.		
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Nut oil shampoo.		
COCONOIDS ...	31/6	3/6
For figure development.		

### The Products of

Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES	{	36/-	4/-
For obesity.		58/6	6/8
SOFT PALERIUM ...	45/-	5/-	
For wrinkles.			
LIQUID NAIL POLISH ...	10/-	1/-	
Brilliant and lasting.			

Stocked by ALL Wholesale Houses.

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 India : SIVE BROS. & KARNOVSKY, Johannesburg.  
 SMITH, STANISSTREET & CO., Calcutta.  
 New Zealand : SHARLAND & CO., Auckland & Wellington.  
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## A better series of Toilet Preparations for the Pharmacist

Melba Toilet Preparations, although comparatively new to this country, are making great strides in public favour. This is doubtless because they possess new and distinctive features and are infinitely superior to all others. Very attractively packed, these toilet preparations lend themselves readily to the most artistic window displays, especially when used in connection with the splendid display matter at the disposal of all chemists.

Melba advertisements are appearing in the important papers of the country—part of a great campaign to help the pharmacist.

Write for Trade Terms and Full Particulars.

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# MEHLBA TOILET PREPARATIONS

HERE IS THE LINE you must surely have been looking for in order to increase your profits and meet your customers' ever-increasing demand.

## "GALJADO" SCURF LOTION for all SCALP and HAIR TROUBLES.

Small size, 10/6 per dozen. S.P. 1/6 per bottle.  
 Standard " 16/6 " S.P. 2/6  
 Large " 33/- " S.P. 4/6 "

"GALJADO" TOILET PREPARATIONS are universally renowned, and are obtainable of all Wholesalers or direct.

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GREASE PAINTS

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Etc.

Obtainable from  
your Wholesalers  
or direct from

## VANITIES LTD.

(Sole British Agents)

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# WILSON'S CO-RE-GA<sup>®</sup> (POWDERED)

Comfort Powder

## Holds False Teeth Firmly in the Mouth

PREVENTS SORE GUMS.

Dentists everywhere are now prescribing and sending patients to Chemists for CO-RE-GA. Sales are increasing tremendously on account of this extensive and intensive dental propaganda work. As a Dental Plate Fixative CO-RE-GA stands alone for dependability and long-lasting adhesive properties.

CO-RE-GA is a ready repeater and sells anywhere, whilst profits are not only good, but amply protected. Add to your personal prestige by handling CO-RE-GA.

LIKE THE DENTIST—RECOMMEND IT WITH CONFIDENCE.

IN METAL CANISTERS:

(Small)	1/6 P.A.T.A.	- - - - -	Doz. 12/-
(Medium)	2/6	"	" 20/-
(Large)	4/3	"	" 34/-

ORDER FROM YOUR WHOLESALER—or direct from

*Thos. Christy & Co. (DISTRIBUTORS),*  
4/12 Old Swan Lane ————— London, E.C.4.  
SAMPLES MAILED FREE ON REQUEST.



GIVES  
A GOOD  
PROFIT

ENSURES  
LASTING  
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## The HENNA CULT

of Hair Beauty, based  
on the famous  
**EVAN-WILLIAMS**  
ORIGINAL  
**HENNA SHAMPOO**  
daily extends its boundaries, and is now a subject for popular journalism.

*It pays to sell this famous line.*

You will find full details of terms and prices in the current issue of "THE SHAMPOO SALESMAN," a copy of which is gladly sent on request.

Be sure to order



Wholesale only:  
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## The "FORT" Brand PROPHYLACTIC TOOTH BRUSH

Each Brush packed in an Orange Carton, sealed at Factory, ensures Brush reaching customer in a clean and wholesome condition.

— In Three Sizes. —

### WHOLESALE —

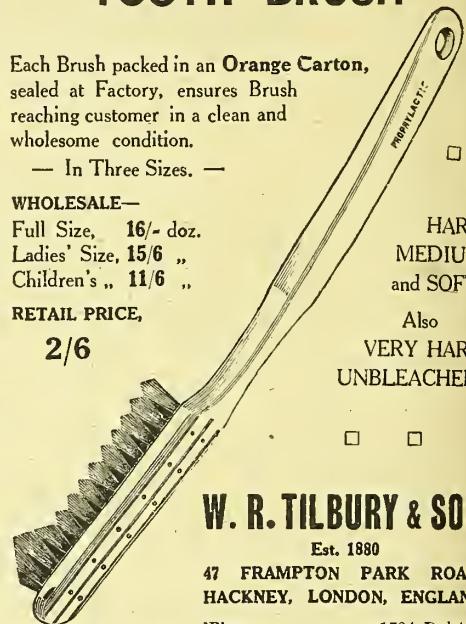
Full Size, 16/- doz.  
Ladies' Size, 15/6 "  
Children's, 11/6 "

### RETAIL PRICE,

2/6

HARD  
MEDIUM  
and SOFT.

Also  
VERY HARD  
UNBLEACHED.



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Est. 1880

47 FRAMPTON PARK ROAD,  
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'Phone - - 1794 Dalston

## Lenora (SIX DOZEN CARRIAGE PAID) Vanishing Cream

LAVENDER OR BOUQUET.

In dainty Aluminium Boxes with screw lids.

### WHOLESALE 2/9 DOZEN OR 30/- GROSS.

Splendid value, not a sample size.

### THE PARKSIDE MANF., CO.

Face Powders,  
Hair Lotion, etc.

58 PARIS GARDEN,  
LONDON, S.E.1

Dentists and  
Doctors are  
recommending

**Tiffin's Dentabath**

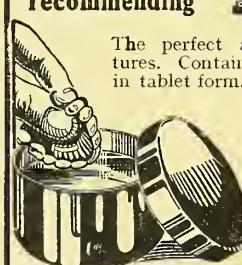
Patent 182294. 30.5.21.

The perfect antiseptic bath for artificial dentures. Contains a 12 months' supply of antiseptic in tablet form. Add water. That's all!

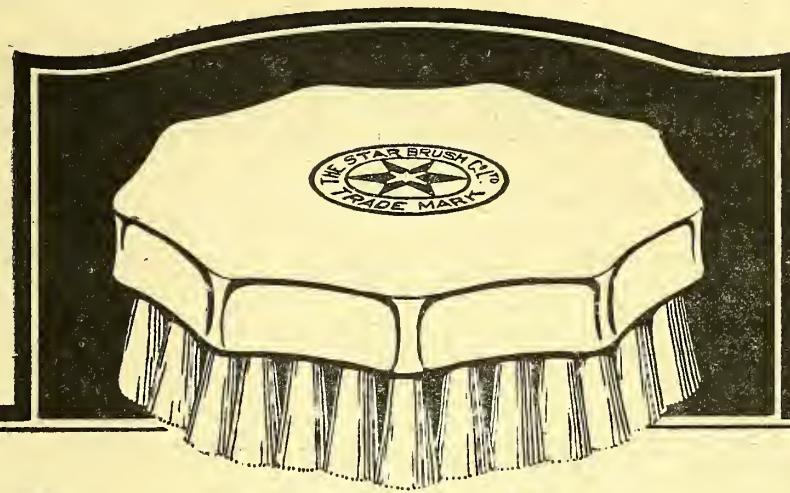
Carries a good margin. Retails **4/6**

Dozen lots, 39/-, carr. forward.  
2 dozen lots, 39/- doz., carr. paid.

**LONDON WHOLESALERS :**  
Warrick Bros., 8 Nile St., City Rd., N.  
**MAKERS :** Tiffin's Dentabath, Ltd.,  
37c, King St., S. Shields.



D6



## Everyone knows Star Brushes

**B**EING so widely advertised, Star Brushes are universally known and their prestige can be a valuable asset to your business.

Daily they are proving their worth in more than a million homes; it is their wearing quality and true economy which make them so popular.

You make a sound investment when you decide to stock and display the Nail Brush with the Star on the back.

### STAR NAIL BRUSHES

Write at once for the splendid sample case, containing 81 brushes of the best selling lines, which we are supplying for £1, carriage paid.

THE STAR BRUSH CO., LTD.  
Eden Grove, Holloway, LONDON, N.7.



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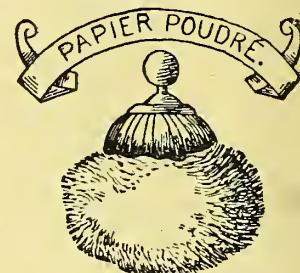
TRADE



MARKS

**British Made  
Goods.**

REGISTERED



**Note our Trade  
Marks.**

**"LEHCARESOR."**

**Papiet Poudrē**

*Beware of  
Spurious Imitations.*

PAPIER POUDRÉ, LTD.,  
46 Baker St., Portman Sq., London, W.1,  
and at Paris.

**WHITE, ROSE or RACHEL Tints, 4d., 6d., 8d., and 1/4 size Booklets,  
2/8, 3/9, 5/- and 10/- per doz. net, respectively.**

**SUNBURN TINT, 8d. and 1/4 sizes only, 5/- and 10/- per doz. net.**

**NOTICE TO THE TRADE.**—We are now making a 3d. book  
in WHITE, ROSE, and RACHEL Tints at 2/- per doz. net.

## NEW LINES IN PAPIER POUDRÉ.

**BOOKS IN WHITE ROSE and RACHEL TINTS, containing neat Mirror,  
6d. size 3/9 per dozen net. 1/- size 7/6 per dozen net.**

**NEAT MIRROR CASES, 1/6 ... ... ... ... ... ... 13/9 per doz. net.**

**REFILLS to Mirror Cases in White, Rose or Rachel, 4d. ... ... ... 2/8 per doz. net.**

**8d. SHAVING PADS, for Use after Shaving (unscented), white only ... 5/- per doz. net.**

## **POPPŒA ROUGE**

*A most popular line.*

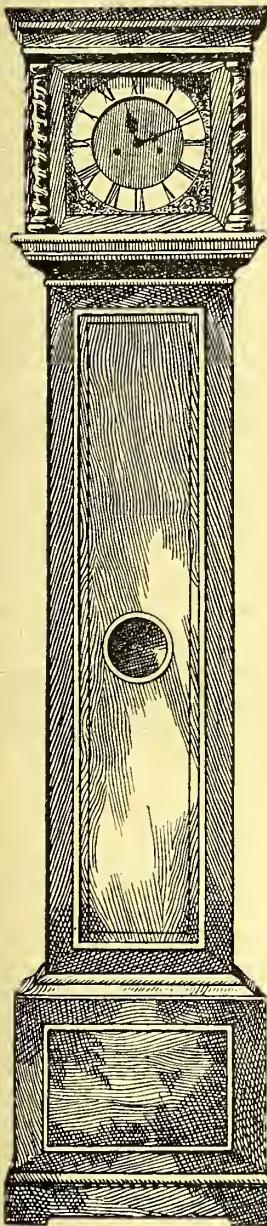
(Regd.)

Made in booklet form. One size only, viz. 1/-, at 8/- per doz. net.

Mirror Cases 1/6, at 13/9 per doz. Refills for same 6d., at 3/9 per doz. net.

**PAPIER POUDRÉ, Ltd., 46 BAKER STREET,  
PORTMAN SQ., LONDON, W.1**

# Antiques



The joy of Antiques is not in their age but in their CRAFTSMANSHIP.

In the 18th and early 19th centuries an employer and his workers were proud of their craft, not ashamed of production, as many are today, when Limited Companies in the rush for money have caused Factories to become an eyesore to the countryside.

An exception to this is the ADDIS WORKS, which is still an individual business, inherited direct from father to son since 1780—the age of craftsmanship.

Production for the money alone will never have the dignity of appearance of productions with the heart of the craftsman in them.

This is the secret of the appearance and quality of

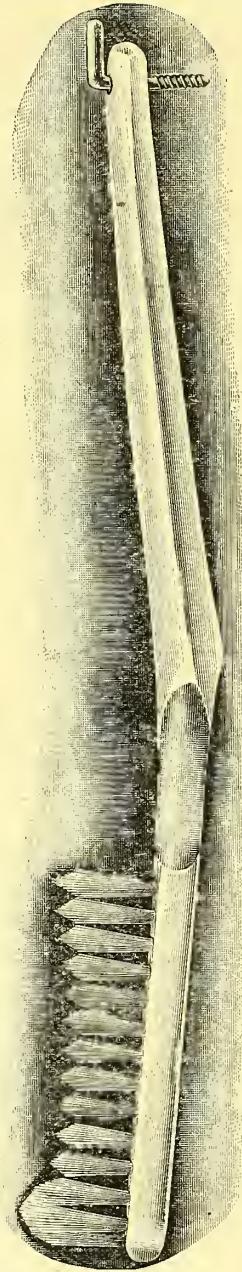
## “ADDIS PROPHYLACTIC”

Reg. No. 593367.

### BRUSHES.

A Factory whose workers' ambition is to maintain the craftsmanship held by their forbears.

*Obtainable from all Wholesale Houses.*



Reg. No. 593367.

**ROBT. ADDIS & SON**  
**Brush Works, Hertford.**

# MACHINERY for the MANUFACTURE OF **CONTAINERS**

**VICKERS LIMITED** are specially engaged at their Erith Works, Kent, in the design and manufacture of the most up-to-date plant for making all kinds of pilferproof shipping containers.

This form of container is lighter and stronger than a wood case—also more convenient as it can be stored in the flat and made up as required. It will also be found to be cheaper. Vickers Limited are in the position to give free advice as to plant and CAN NOW SUPPLY THE MACHINERY.

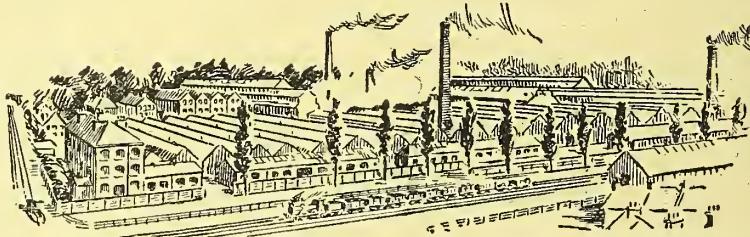
ERITH.

Department No. 75

KENT.

Telephone:  
ERITH 68

**Telegrams:**  
**VICKERS**  
**BRITISH**



# Venesta Collapsible Tubes

## Lipsalve Cases, Sprinklers, etc.

Made in Pure Tin, Lead,  
or Lead coated with Tin,  
Plain or Enamelled, and  
printed with designs to suit  
customers' own requirements

*Manufactured by*  
VENESTA, LTD. 1 GT TOWER ST., LONDON, E.C.3



100-1000





## CUT PRICES

are sending the Contracts to  
**GOODALL'S**

# MALT EXTRACT

1923-4

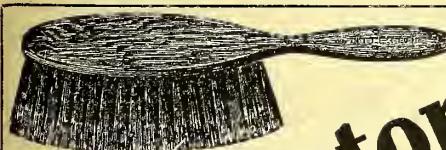


**W**HEN we make a special bid for business we usually get it, and this year we are out for the Malt Extract trade. And it is coming our way to a greater extent than ever before—we appear to be getting it in every case in which our pack and our price are compared with other offers.

Faultless is the only word which describes our complete Malt Extract offer of this year. It includes the highest-grade extract rich in pure Oil, perfect jars of either round or the popular oval shape, a handsome range of labels (including new OWN NAME) strong Showcards that really sell—and prices adjusted to meet all competition. Can you ask more?

**PRICES** naturally vary according to your season's contract. If you will send us a card, stating your normal season's requirements, back will come specimen labels for you to choose from and a price at which you will be glad to order. Will you write that card—now—please?

**GOODALL, BACKHOUSE & CO. - LEEDS.**



# Titterton's

Celebrated HAIR BRUSHES

Tooth, Nail & Shaving Brushes

**TITTERTON & HOWARD, Ltd., 8-10 Gt. Titchfield St., W.1.**

Factory : Albion Works, Dalston Lane, E.8.

### Why "Watts" Blades excel.

British—and Best.



3/6

per doz.  
allowing  
50% PROFIT  
on cost for  
he dealer.

FOR GILLETTE-TYPE  
AND AUTOSTROP-TYPE  
HOLDERS.

12 Perfect Blades  
in Every Dozen.

Sole Manufacturers :  
**JOHN WATTS,**

Dept. 3, Lambert Works,  
SHEFFIELD,  
London:  
24 Redcross Street, E.C.1.

For Status Inquiries, Collection of Accounts, and Investigations,  
Business Transfers, Stocktaking and Valuations,  
**Join The Association of  
Manufacturing Chemists, Ltd.**

which is **THE MEDIUM** for the **TRADE**.

**PROSPECTUS ON APPLICATION.**

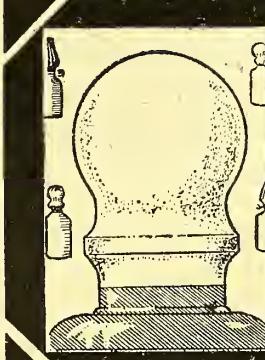
**PARKIN S. BOOTH,**

Accountant to the Association of Manufacturing Chemists, Ltd.  
(for the Protection of the Drug, Chemical and Allied Trades)

**26/28 KIMBERLEY HOUSE, HOLBORN VIADUCT, E.C.**

*Telephone : City 6942.*

**Or 35, 36 & 37 EXCHANGE CHAMBERS,**  
**2 BIXTETH ST., LIVERPOOL.** *Telephone : Central 4330 (4 lines).*



Do not fail to investigate the  
**NEW and IMPROVED**

# VISKAP

SELF - FIXING  
BOTTLE CAPS

*Details from*  
**THE VISCOSE  
DEVELOPMENT Co., Ltd.,  
BROMLEY, KENT.**

*PROMPT DELIVERY.*

# Hooker's

**The Malted Milk with the Nicest Flavour**

*WHETHER judged by analysis, by flavour, or by dietetic results, HOOKER'S Malted Milk deserves a forefront position in every responsible Pharmacy. ¶ The public like HOOKER'S; doctors constantly recommend it; and an excellent profit rewards its handling.*

ADVERTISING MATERIAL GRATIS.  
THE W. HOOKER & GILBEY, LTD., BUCKINGHAM,

HT. 18

TO GET  
**INTO DIRECT TOUCH**

with the best buyers of Drugs,  
Chemicals, and allied products

**ALL OVER THE WORLD**

use regularly the publicity  
service afforded by

**THE CHEMIST & DRUGGIST**

**NURSE HARVEY'S MIXTURE**

A safe, simple, and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessaries from him. Moreover, the retailer has a profitable return on a quick turnover.

*For Direct Terms apply to—*

**OSCAR SCRUTON & CO., YORK**

QUALITY MAKERS of  
**Malt Ext.** and

All packings.

**Malt & Oil**

**C. Tolkien & Co.**

Established 1886.

Factory & Maltings — Apollo Works, Blackburn.

Offices & Warehouse—Commercial Mills, BELFAST—31 Antrim Road.

# MALT EXTRACT

Our manufactures are renowned for palatability and general excellence. Guaranteed absolutely pure. We invite enquiries for samples and prices.

Supplied in bulk in tap drums, if desired, also in tins and amber jars.

A large selection of beautiful labels to choose from. Customer's name and address imprinted free of charge.

# MALT & OIL

HARKNESS, BEAUMONT  
& CO.

JUNCTION BRIDGE, LEITH,  
EDINBURGH.

MALT EXTRACT

MALT & OIL

*Ask for Samples  
& Prices  
in Bulk  
stating Quantity*

**Jeffreys, Miller  
& Co., Ltd.**

Leyland Mills  
**WIGAN**

# DIABETES



The Cheltine and Manhu Foods for DIABETICS are now manufactured under one management at Cheltenham Spa, Eng., and full particulars as to trade terms and supplies of advertising matter are gladly supplied on request to

**THE CHELTINE AND MANHU FOODS CO.**

Cheltine Works, 17 Cheltenham Spa, Eng.

# SUMMER DRINKS

**FINEST QUALITY  
LEMON SQUASH**

**AND WEST INDIAN  
LIME  
JUICE CORDIAL**

Labels with customer's own name if desired.

ALSO  
BRITISH & FOREIGN WINES  
**MEAT & MALT WINE**  
**& B.P. ORANGE QUININE WINE**

*Write for samples and Price List to*  
**LAMB & WATT, LIMITED**  
48 St. Anne Street, LIVERPOOL  
ESTABLISHED 1847.

THE  
**BRITISH DIAMALT CO.'S**  
Products are Reliable

## MALT EXT. & C.L.O.

Prices and Samples on application.

BUY DIRECT FROM THE MAKERS—

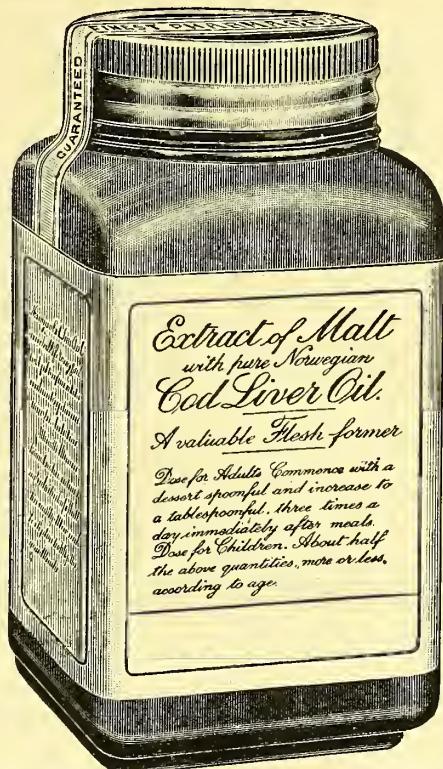
**THE BRITISH DIAMALT COMPANY**

*Maltsters and Malt Extract Makers.*

**9 HOLBORN VIADUCT, LONDON, E.C.1**

Works & Laboratories : SAWBRIDGEWORTH, HERTS.

Liverpool Office : ARCADE BUILDINGS, 85 LORD STREET.



"BEST  
for  
MOTHER  
and  
BABY"



"DORSELLA"  
MILK FOOD

Equals Grade "A" Milk

5 oz., 10 oz. and 16 oz. net. Decorated air-tight tins.  
Retail Price . . 1/4, 2/- and 2/6.

2 oz. Samples free.

Liberal trade discount. Bulk in 56-lb. tins, 2 tins in crate, rail paid,  
at 11½/- per cwt.

Manufactured by

PRIDEAUX'S FOOD ETC. COMPANY, LIMITED,

Pioneers of the Dried Milk Industry. Eight  
Creameries in Dorset, Somerset and Wilts.

London Office : 16 Southwark Street, S.E.1.

Send for Trade Terms and full particulars to :

PRIDEAUX'S FOOD etc. Co. Ltd.  
MOTCOMBE, DORSET.

## Pure Food Gelatine

Our entirely new works at Ghent produces gelatine of all grades conforming to the most severe Pure Food Laws of all countries.

Sole Agent for U.K., Colonies  
and U.S.A. :

**PAUL INGENLATH,**  
Monument Buildings,  
LONDON, E.C.3.

Phone :  
Minories  
2576.

Cables and  
Telegrams :  
"Ingenlath,  
London."

SOCIÉTÉ GÉNÉRALE BELGE DE PRODUITS CHIMIQUES  
GHENT BELGIUM  
Works also at  
AISEAU - HEMIXEM(ANTWERP) & MORNIMONT

# DOLS' FLANNEL

(Volatalise)

High radio activity through the skin to the lower layers and organs.

Cures { RHEUMATISM, BRONCHITIS,  
NEURITIS, SCIATICA, LUMBAGO.

Sold in Fancy Boxes at 1/3 and 3/-, also by the yard at 12/-,  
and made up into every garment sold by the Chemist.

Samples and Wholesale Prices on application.

STAND No. 75, Glasgow Chemists' Exhibition

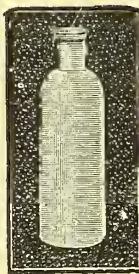
DOLS LIMITED, Huddersfield, ENGLAND

## Re—ORDERS FROM STOCK

We hold stocks of seasonable glassware, and if you will be good enough to advise us what you can do with, we will promptly deal with your enquiry. Quick delivery.

WHAT CAN WE QUOTE YOU FOR?

LIMES.



Lime.

KALIS.

BRILLS.

TABLET

BOTTLES.

POMADES.

PANELS.



Narrow-Mouth Shop Round.

MEDICALS

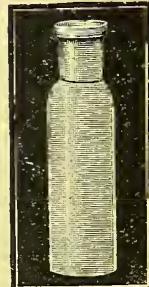
VIALS.

TOBINS.

CANNONS.

TUBES.

&c.



Kali.

JULES LANG & SON  
CHARLTON WORKS, CHARLTON PLACE, ISLINGTON, LONDON, N.1.

(Opposite Agricultural Hall.)

Telephone : North 2770-2 (3 lines).

Codes : A B C, 5th Edition.

Scott's 10th Edition (1906). Bentley's Complete Phrase Code.

Telegrams : "Assorted, Phone, London."

Reg. Trade



Mark No. 26866.

## HAND-TURNED RE-AGENT BOTTLES

Plain or Stoppered with Flat-topped Stoppers.



NARROW MOUTH.



WIDE MOUTH.

## HAND-TURNED SHOP ROUNDS

Plain or Stoppered with Grip Stoppers.



NARROW MOUTH.



WIDE MOUTH.

These bottles are of beautiful finish, and are made in a glass which is free from arsenic and lead and which has been specially designed with a view to reducing the alkalinity to a minimum. All the stoppering is hand finished in order to secure a perfect seal.

As Containers for Fine Chemicals they have no equal.

Special Prices for Bulk Orders.

**WOOD BROTHERS GLASS COMPANY, LIMITED**  
BARNESLEY, (Established 1828). ENGLAND.

# THE METHYLATING Co., LTD.

## for METHYLATED SPIRIT.

KINNAIRD HOUSE, Pall Mall East, LONDON, S.W.1.

Telephone: Regent 5621.

Telegraphic Address: "Methcolim, Phone, London."

For

## GLASS BOTTLES

Write to

*Fred<sup>k</sup> Youldon*

Formerly proprietor of E. YOULDON. Established 1840.

PORTLAND HOUSE,

73 Basinghall Street, LONDON, E.C.2.

Wires: "Youldon, Stock, London."

Phone: London Wall 3529.

### You must have a GLEDHILL for satisfaction

Hundreds of Cash Tills supplied by Gledhill's over 30 years ago are still in use.

A User writes:—"We have one of your older register tills, we have had it over 30 years and never spent a penny on it."

The Total Adding Register automatically adds the sales as they are made, into one grand total. Issues a printed receipt, dated, of the amount of purchase, and retains a private duplicate record.

Send to-day for revised price list of Cash Tills of every type, all with excellent provision for Treasury Notes.

B. H. GLEDHILL & SONS, Ltd.  
18 TRINITY WORKS,  
HALIFAX, ENGLAND. ▽

GROCERS'  
EXHIBITION  
SEPT. 22-23  
Stand No. 191, Row X

## SHOWCASES

UPRIGHT CENTRE CASES, WALL CASES,  
GLASS COUNTERS, MIRRORS

WINDOW FITTINGS, GLASS SHELVES,

SHOW STANDS, DRAWERS, DESKS

CHECK TILLS, &c. Immense Stock.

NEW and SECOND-HAND.

Ready for Immediate Delivery. For Sale or Hire.

**FREDERICK MAUND**  
169 Old St., LONDON, E.C.1.

## BOTTLES.

I solicit your enquiries for MEDICAL FLATS in all sizes, plain and graduated, MEXICANS, POISONS, KALIS, LIMES, VIALS, CANNONS, OVALS, BRILLIANTINES, in all shapes. SCREW JARS, TABLET BOTTLES, etc. etc. All bottles used in perfumery and chemist trades. Special shapes made Wholesale quantities only.

**VAN DER HOEKS, 321/23 Bank Chambers, 329 High Holborn, LONDON, W.C.1.**

AS ADVERTISED.



33½% PROFIT

## INSECT BITE REMEDY

Prevents Itching, Irritation & Swelling after an Insect Bite.

In Boxwood Cases, sold at 1/3; in Plain Brass Screw Cap Tops, 1/- each.  
From HERTZ & Co., Manufacturing Chemists, 9 Mincing Lane, London, E.C.

AS ADVERTISED.



# Trade follows the Ad.

The absolute necessity for increasing British trade—Home and Export—is daily being emphasised by statesmen, business men and bankers.

Travelling and postal costs are now so prohibitive that advertising in a reputable trade journal, with a genuine appeal to actual buyers, like

## THE CHEMIST AND DRUGGIST

is the most effective and least expensive way of selling goods.

In the case of THE CHEMIST AND DRUGGIST the appeal is universal. Besides having as regular subscribers all the worth-while firms—manufacturing, wholesale, export and retail—in the United Kingdom, the subscription list includes the names of thousands of responsible firms buying and selling drugs, chemicals, perfumery, druggists' sundries, and allied products in the following countries overseas:

BRITISH EMPIRE	EUROPEAN CONTINENT	CENTRAL AMERICA & SOUTH AMERICA	AFRICA	NEAR EAST & FAR EAST
Australia	Nigeria	Holland	Chile	Arabia
British Columbia	North Borneo	Hungary	Colombia	Asia Minor
British Guiana	Rhodesia	Italy	Costa Rica	China
British West Indies	St. Helena	Latvia	Cuba	Japan
Burma	Sierra Leone	Norway	Equador	Java
Canada	South Africa	Poland	Guatemala	Manchuria
Ceylon	Trinidad	Portugal	Haiti	Mesopotamia
Cyprus	Uganda	Roumania	Panama	Palestine
Fiji Islands	Zanzibar	Serbia	Peru	Philippine Islands
Gibraltar	Austria	Sicily	Salvador	Siam
Gold Coast	Belgium	Spain	Uruguay	Syria
Hong Kong	Bulgaria	Sweden	Venezuela	
India	Czecho-Slovakia	Switzerland	AFRICA	UNITED STATES OF AMERICA
Jamaica	Denmark	Turkey	Algeria	MEXICO
Kenya Colony	Estonia	Yugo-Slavia	Canary Islands	
Malay States	Finland	CENTRAL AMERICA & SOUTH AMERICA	Congo (Belge)	
Malta	France	Argentine	Egypt	
Newfoundland	Germany	Bolivia	Morocco	
New Zealand	Greece	Brazil	South-West Africa	
			Protectorate	
			Sudan	

Thus wherever the British Flag goes there also is THE CHEMIST AND DRUGGIST, and the point to bear in mind is

that it is sent regularly at the request of eager buyers of Drug-trade commodities who prepay 20/- to have it delivered to them weekly for twelve months.

The Firm with Drug-trade merchandise to dispose of, therefore, which is not advertising in THE CHEMIST AND DRUGGIST is losing golden opportunities.

All particulars regarding available space, special positions, coloured insets, &c., from—

**THE PUBLISHER, THE CHEMIST & DRUGGIST,  
42 CANNON STREET, LONDON, E.C.4.**

*Branch Offices:*

MANCHESTER (ENGLAND);  
and SYDNEY & MELBOURNE,  
AUSTRALIA.

# Remedies for better business

THERE is bigger business waiting for all chemists who care to investigate the possibilities in the sale of Spratt's Dog Remedies and Soaps, *and act on their shrewd judgment.* To stock Spratt's Dog Remedies—all of them attractively packed, requiring small storage space, not liable to deterioration, and sold at definitely maintained prices everywhere—means to open your door to *your* section of the public in this country, 2,500,000 strong, who are dog owners. Consider the matter thoroughly—here is new and profitable business. Isn't it worth your while to take an active interest?

**Some of Spratt's  
Leading lines.  
Always in demand.  
Profitable, and  
easily handled.**

**SPRATT'S  
DISTEMPER  
PILLS.**

The most potent remedy yet discovered for the great canine scourge. Full directions in every box.

**SPRATT'S  
DISTEMPER  
POWDERS.**

The same remedy in powder form for convenience where pills found difficult to administer.

**SPRATT'S  
PUPPY  
VERMIFUGE.**

A certain expellant of worms and carefully compounded for safe administration to young dogs.

**SPRATT'S  
WORM  
PILLS.**

A compound of the best anthelmintics and a safe and certain cure for worms in adult dogs.

**SPRATT'S  
WORM  
POWDERS.**

A similar compound in powder form for where pills are desired.



**Free.** The valuable sales helps illustrated are free to stockists of Spratt's Dog Remedies. They include unique slotted display cards—as good as a showcase—showcards and instructive booklets on various subjects of interest to dog owners.

#### EVERY FOURTH CUSTOMER A DOG OWNER

STATISTICS show that one householder in four owns a dog—every fourth customer of yours is a possible customer for Spratt's Dog Remedies, and these can also be the means of attracting new custom to your store. Talk of Spratt's to your customers who own dogs and you will find them all agreed that "Spratt's" means "quality," and all agreed that Spratt's Dog Remedies are the only remedies they need to keep their dogs in perfect health.

# SPRATT'S DOG REMEDIES AND SOAPS

Spratt's place the service of an expert technical staff at the disposal of all customers, and invite enquiries on all doggy matters.

Drop a postcard now for complete Information, Terms and Offers to:—

**Remedies Sales Dept., Spratt's Patent, Ltd., 24/5 Fenchurch St., London, E.C.3**

SPRATT'S  
COOLING  
POWDERS.

Periodically  
give  
him  
cold  
water  
and  
action : es-  
pecially  
valuable  
in weather.

SPRATT'S  
REMEDY FOR  
ST. VITUS'  
DANCE.

All curable cases  
of Chorea in dogs  
will yield to this  
specific. Full di-  
rections enclosed  
in each box.

SPRATT'S  
RHEUMATISM  
PILLS.

A remedy with-  
out equal for  
rheumatism,  
chest founder,  
and pains due  
to exposure to  
weather.

SPRATT'S  
COUGH  
PILLS.

Prompt and  
effective in ac-  
tion, a first dose  
bringing relief  
in even long-  
standing cases.

SPRATT'S  
PURGING  
PILLS.

A valuable cure  
for constipation  
and a prelimin-  
ary medicine in  
the treatment of  
many canine  
disorders.

SPRATT'S  
DOG  
SOAPs.

No. 1 (Yellow  
label)—for ordi-  
nary washing  
purposes.  
No. 2 (Blue label)  
Parasite exter-  
minant.

SPRATT'S  
FOMO LIQUID  
SHAMPOO.

A few drops pro-  
duce a thick  
foamy lather.  
Ideal for the  
general washing  
of the house dog.

#### A PROFITABLE BUSINESS EASILY HANDLED

THE prices (maintained) of Spratt's Dog Remedies allow a handsome margin of profit. And in no general way of trading is it possible to make that profit more easily than with these remedies, for nothing can be handled with greater ease. With the exception of one or two liquid specifics, all are packed uniformly square in shape and attractively wrapped, and in displaying, storing or general handling necessitate the minimum of work.



A Quick Selling Line!!

# Lavender MOTH TABLETS.

Saves Clothes, especially Woollens and Furs, from destruction by Moths.

Sample tin free on application.

Price:- 3 dozen @ 5/- per doz.  
12 doz. @ 4/9 per doz.

H. & T. KIRBY & Co., Ltd.,

Newman House, WILLESDEN GREEN, LONDON, N.W.2.

*He's quite happy. They bathe him with Germicidal Dog Soap.*



**Every dog-lover  
is a customer for  
Germicidal DOG SOAP**

Recommendations, Repeats, Extensive Publicity—these are the reasons why big business is being done in "Germicidal Dog Soap."

Hundreds of thousands of dog lovers have long wanted a Soap to purify as well as cleanse their pets. We are telling them about "Germicidal Dog Soap" in powerful advertising in the National Press, and backing up Special Agents with Publicity in their local newspapers.

"Germicidal Dog Soap" in 9d. and 1/6 tins sells big, sells quickly, and shows a gross profit of over 40% if displayed.

Write at once for Window Display terms, &c., to—

**THE HYGIENIC RESEARCH CO. Ltd.**  
100-106 Moorgate Station Chambers, London, E.C.2.  
(Supplies stocked by your usual Wholesaler.)

**GERMICIDAL  
DOG SOAP**  
Product of the  
HYGIENIC  
RESEARCH  
CO. LTD.

To CHEMISTS and DRUG STORES, IT PAYS to sell  
**FARMER'S "BAITED"  
PHOSPHOR PASTE**  
Made from an improved formula. It is the BEST RAT and MOUSE POISON  
IN THE WORLD.  
Jars 4d., 7½d., and 1/3. KINDLY ORDER from SUNDRY HOUSES.  
ONE USER recommends to another.  
Export Agents: AYRTON SAUNDERS & CO. LTD.,  
34 Hanover Street, Liverpool.  
Manufacturers: F. FARMER & CO., HOMERTON, LONDON.

SHERLEY'S  
DOG MEDICINES  
INSECT POWDER  
SHAMPOO, and  
LACTOL  
(P.A.T.A.)



These preparations command a ready sale, and are by far the largest advertised of any on the market. They are protected at prices that leave an excellent margin of profit for the retailer, and the terms on which they are supplied preclude any possibility of loss.  
We have an excellent range of literature and show cards, and do all in our power to assist chemists by referring mail customers to them.

Write for Price List and Terms.

**A. F. SHERLEY & CO., LTD.**  
18 MARSHALSEA ROAD, LONDON, S.E.1  
Tel. No.: Hop 1897. Telegrams: "Sherleydom, London."

## *What can you recommend for Distemper in Dogs?*

THE Chemist can now answer this question with complete assurance. He can sell Lintox to all dog owners as a sure cure for Distemper. It has a record of unbroken success.

*Recommended by the Secretary of The Dogs' Home, Battersea, who wrote:*

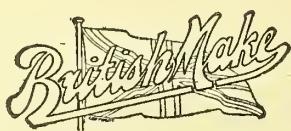
"Dogs went to good homes instead of the lethal chamber, where they undoubtedly would have gone if it had not been for your mixture. . . . I think the result of this prolonged trial speaks for itself, and I shall have much pleasure in recommending your cure."

# **Lintox**

**DOES CURE DISTEMPER**

Write for Liberal Trade Terms to the Proprietors:

**THE BADMINTON DISTEMPER CURE CO., LTD.**  
**9 KNIGHTSBRIDGE**      **LONDON, S.W.1**



SUPPORT HOME  
INDUSTRIES.

SPECIFY ROBINSON'S

## CHEPETTE BOXES

when ordering from your  
Wholesale House.

\*

Both quality and appearance  
are superior to the poor grade  
Willow Boxes of German and  
Austrian make.

\*

Deliveries are prompt and  
reliable.

\*

Prices have been reduced and  
the good quality maintained.

---

ROBINSON & SONS, LTD.  
CARDBOARD BOX MANUFACTURERS,  
CHESTERFIELD.

**ALL KINDS  
PLAIN AND  
DECORATED  
TINS**

**WHOLESALE ONLY**

**ERNEST TAYLOR LIMITED**  
BREEZE LANE WORKS,  
**WALTON, LIVERPOOL**

## SALVO PETROLIA

The Perfection of Petroleum Jelly

MANUFACTURED SOLELY BY  
**THE DEE OIL COMPANY, Ltd.**  
D 23/24, EXCHANGE BLDGS., LIVERPOOL.  
Telephone: Central 3859. Telegrams: "Cestrian Liverpool."

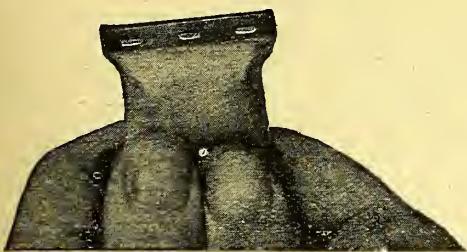
Packed in barrels, kegs and smaller  
packages according to requirements.

Other Grades  
**PETROLEUM JELLIES, WHITE BASES, ETC.**  
Samples and prices on application.

"OLEUM DEELINÆ," a certain cure for Eczema.

**STUBBS**  
Antiseptic  
DRY SHAMPOO  
for  
**DOGS**

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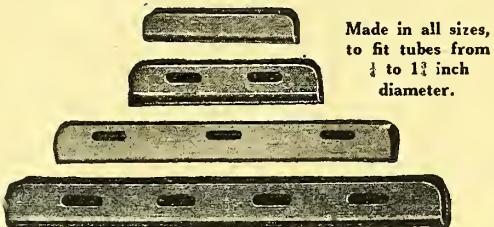


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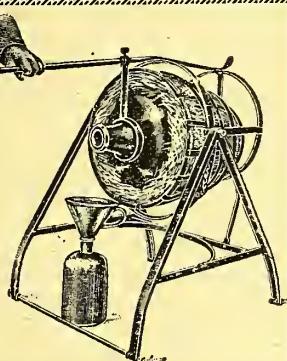
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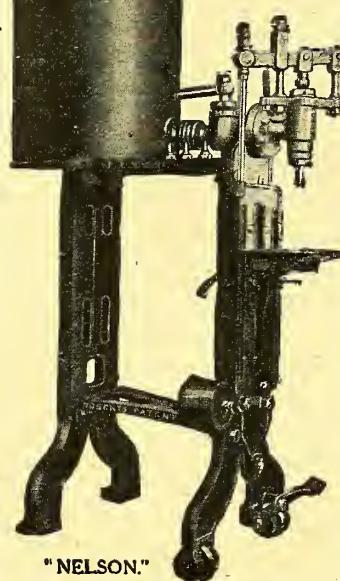
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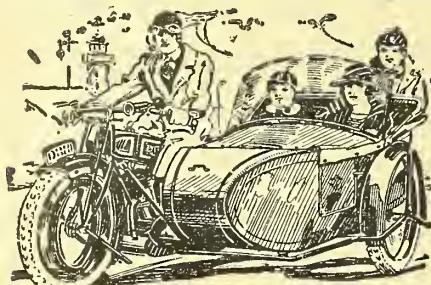
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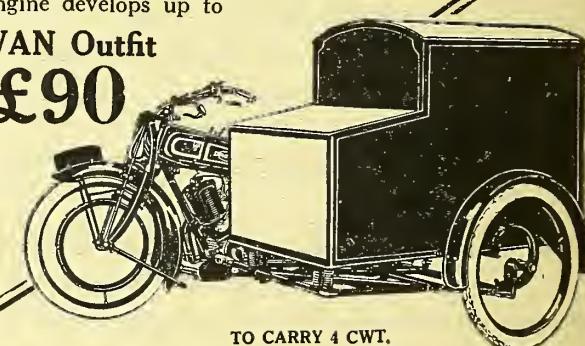
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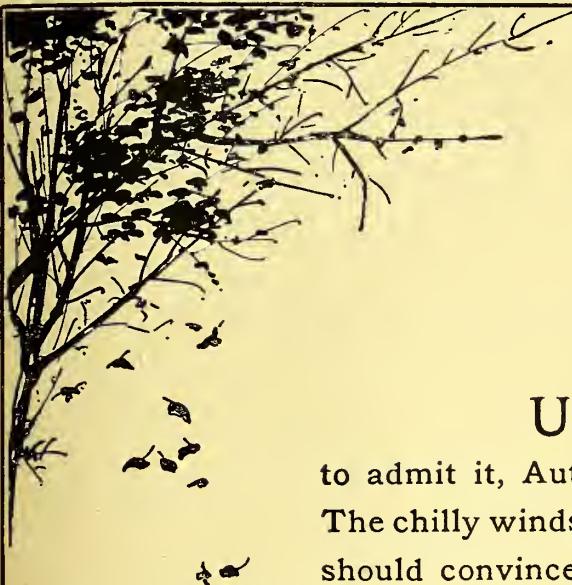
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Known, Admitted, and Approved Remedies

FOLLOWING the practice which we started some years ago we propose to reserve space in the forthcoming issue of *The Chemist and Druggist Diary*, 1924, for the registration of formulas for "known, admitted, and approved remedies." Under the Medicine Stamp Act, 1812, such medicines, when sold by chemists, are exempt from medicine-stamp-duty so long as the formulas are contained in recognised works of reference and proprietary rights are not claimed. A clear indication must be given, on the label of the medicine, of the published formula as evidence that the medicine is of the kind to which the exemption refers. *The Chemist and Druggist Diary* was the first book of reference recognised by the Board of Customs and Excise, after the British Pharmacopoeia, and the *Diary*, being published periodically, affords an exceptional opportunity for chemists to add any fresh formulas for medicines coming within the definition of "known, admitted, and approved remedies." Chemists who desire to take advantage of this arrangement should forward true copies of the formulas with the titles and directions for use so that we can include these in the *Diary*. We shall attach the correct reference numbers to the formulas when they are published. The formulas, which must be written on one side of the paper only, should be sent **not later than October 13**, addressed to the Editor, C. & D., 42 Cannon Street, London, E.C.4.

## Dangerous Drugs Acts Publications

### For the Retailer

THE recent vindictive prosecutions of chemists by the Home Office have shown the necessity of avoiding the many pitfalls of the Dangerous Drugs Acts, and the Regulations and numerous Amendments made under the Acts. These are being enforced to the minutest detail upon chemists, and as it is impossible to cope single-handed with the Acts and Regulations it is absolutely necessary that every chemist should possess a copy of the C. & D. Poisons Card, No. 4. This is a codification in non-legal language of the intricate details of the supply of "dangerous" drugs. The card gives also the percentage and other strengths required for (1) deciding whether prescriptions come within the Acts, and (2) for making the numerous entries in the Registers which have to be kept under the Acts. There is no other publication covering the same ground. The new card takes the place of the card first issued in August 1921, and includes the numerous changes that have taken place since the Act came into force. The card is selling in large quantities, but we urge those of our subscribers who have not obtained a copy to do so without delay for their own protection. The prices are as follows:—

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### For the Wholesaler

The change in the Law brought about by the Dangerous Drugs and Poisons (Amendment) Act, 1923, is particularly drastic in regard to the sale of poisons by wholesale. Formerly the Arsenic Act was the only one which required written orders for the articles covered by that Act when purchased by retailers from wholesalers. Section 3 of the new Act now requires signed orders for "dangerous" drugs, and for Part I. poisons of the Poisons Schedule of the Poisons and Pharmacy Act when these are sold by wholesalers to medical practitioners, dentists, and veterinary surgeons. Some wholesale houses (owing to uncertainty as to the law) are even requiring signed orders from chemists. It is necessary, therefore, that commercial travellers and employees of wholesale houses should have in a convenient form a list of "dangerous" drugs, and Part I. poisons, upon the sale of which special conditions apply. To meet this need we have produced a pamphlet, "Sale of Poisons by Wholesale," which gives the law of the subject, and an extended list of poisons scheduled in Part I. Those which are included in the Dangerous Drugs Act are indicated by an asterisk, and space is provided at the end for adding the drug house special preparations not already included in the list. The pamphlet, in handy form for the pocket, is entirely new, and is not a reprint of any previous publication. The booklet is indispensable to wholesalers, and reference to the little book will dispel all doubts as to whether written orders are required in particular cases. It is supplied on the following terms for cash with order:—

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C C

## English and Welsh News

The Editor would be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

### End of Summer Time

It is officially announced that summer time will cease and normal time will be restored at 3 a.m. (summer time) on Sunday next, September 16, when the hour 2-3 a.m. summer time will be followed by the hour 2-3 a.m. Greenwich time. Government and railway clocks will be altered accordingly, and employers are recommended to inform their staff in advance.

### Japanese Earthquake Fund

The Lord Mayor of London has opened a Mansion House Fund for the relief of sufferers from the disastrous earthquake in Japan. The fund now amounts to £80,000. Among the contributions have been the following: Allen & Hanburys, Ltd. (Allenburys Food, valued £100); Burgoyne, Burbridges & Co., Ltd., £105; Sir Richard Cooper, £105; Mr. S. Figgis, £105; United Alkali Co., Ltd., £1,000; Brunner, Mond & Co., Ltd., £1,000; British Oil and Cake Mills, Ltd., £105; Allbright & Wilson, Ltd., £105.

### British Association

The ninety-first annual meeting of the British Association for the Advancement of Science was opened at the Philharmonic Hall, Liverpool, on September 12, when Professor Sir Ernest Rutherford, F.R.S., delivered an address on "The Electrical Structure of Matter." This address, which is given in abstract elsewhere in this issue, was broadcast to all the stations in Great Britain of the British Broadcasting Co. by wireless telephony. The meeting rooms are at St. George's Hall, and the sectional meetings, which begin on September 13, are being held mainly in the University buildings. In the chemistry section Professor F. G. Donnan, F.R.S., will give the Presidential address on "The Physical Chemistry of Interfaces," and will be followed by Professor G. N. Lewis, Dr. N. V. Sidgwick, and Dr. D. Coster, with papers dealing with the quantum theory and atomic structure.

### The London Salon of Photography

The annual exhibition, which is being held at 5A Pall Mall East, London, was opened on September 8. The claim of the promoters to exhibit only that class of picture in which there is distinct evidence of personal artistic feeling and execution is justified by the present display, for the works bear the impress of personality while avoiding the extreme of the bizarre and *outré* work which has sometimes been seen on the walls. As is perhaps only to be expected, the human face and form occupy the attention of most of the exhibitors. Portraits of distinctly impressive character, such as those of Walter Sickert, Joseph Pennell, and Dr. Otto Schlapp, indicate the variety of treatment which this class of subject allows. Among the figure subjects, draped and undraped, graceful poses and delicate tones show good feeling, and an appreciation of line and mass, though some of the figures scarcely seem in complete harmony with their surroundings. Landscape is well represented, the influence of Japanese art being noticeable in some of the compositions. One or two London pictures without any traffic or figures make good decorative arrangements. Factories, railway stations, and other modern buildings have given opportunities for some very good results. The general impression one gains from a visit is of quiet and refined feeling, marked by an absence of any extravagant or jarring effects. The exhibition is open until October 6, between the hours of 10 and 6.

### Public Institution News

Newcastle-under-Lyme Guardians have accepted the tender of Mr. C. J. Wain, Ph.C., for drugs.

Many contracts expire this month, and, judging by inquiries for samples of surgical dressings, etc., it is anticipated that competition for the supplies required during the next half-year will be keen.

### Birmingham

The report from the local hop fields is that the crop is one of the best of recent years.

The winners of the Pharmacy School medals are Mr. Henson (silver) and Mr. Draper (bronze).

The sale of the late Mr. John Wakefield's effects took place recently. The house is to be sold later, and the businesses are being carried on under qualified management.

News has been received of the safety of Mr. L. S. J. Hill, chemist and druggist, and Mrs. Hill. Mr. Hill is the son of Mr. T. Hill, Bank House, Coleshill, and was in Yokohama during the recent earthquake. Mr. Hill has been resident in Japan for a number of years.

Galloways opened their new pharmacy at the corner of New Street and Victoria Square on September 6 with a "free gift" offer to all purchasers. The walls of the establishment are tastefully decorated in white and blue, and the curved plate-glass silent salesman, with polished black framework, together with the glass-fronted counters, display their contents most effectively. Perfumery and toilet articles are supplied on one side of the store, and the other side is devoted to the drug department.

Referring to a recent prosecution in Birmingham Police Court and to the experiments of the city analyst (*C. & D.*, Sept. 1, p. 318) in a letter to the "Birmingham Mail," August 29, "Pharmaceutical Chemist" states . . . "had the defendant been a private chemist instead of a large firm with considerable capital and scientific resources at its command, it is possible the experiments would never have been made, with the result that the chemist would have been convicted on the City Analyst's certificate. . . . As reputable tradesmen and ratepayers, chemists have some right to require that before prosecutions of this nature are undertaken for some fraction of a grain deficiency or excess of no therapeutic importance, the cases may be carefully considered by the Health authorities in order to avoid any injustice, especially in such cases as the one under review, where . . . the contamination was not as the Act lays down 'to the prejudice of the purchaser.'"

### Liverpool

With a late spell of summer, the call for seasonable salines and lemon drinks has revived.

Mr. and Mrs. J. Forbes Johnstone, of Broughty Ferry, sailed from Liverpool recently for the Canaries.

Mr. E. G. Hodges, the veteran locum, has returned to Fairfield, after about six months' absence from Liverpool.

Complaints of dull trade are general, but the good harvest, assured through favourable weather, and the improved political outlook encourage a revival of optimism.

Owing to the abandonment, in a large percentage of cases, of repeat prescriptions, and the tendency to obtain new prescriptions from panel or other medical advisers, the sale of prescription-books as an asset is declining.

The elder son of Mr. John H. Robinson, a pupil at the Liverpool Institute, has matriculated under the provincial universities' joint board of examiners, and probably will adopt engineering as his profession, studying at Birmingham University.

Mr. Harold Lomax has been invited by the National Association of Rexall Chemists of Scotland to give a "talk" on "Modern Merchandising Methods" at a meeting of Scottish chemists, at the Grand Hotel, Charing Cross, Glasgow, on September 19.

Members of the Merseyside Pharmacists' Masonic Association attended in representative numbers the first provincial quarterly "communication" of the Grand Lodge of English Freemasons, which was held, Lord Ampthill (Prov. Grand Master) presiding, at St. George's Hall on September 5. With the cordial approval of the

Grand Master (H.R.H. the Duke of Connaught), 2,000 guineas were voted to the Japan Earthquake Relief Fund.

The funeral of Dr. Edmund Knowles Muspratt, on September 6, was attended by the Lord Mayor of Liverpool, the Mayor of Widnes, and the chairman of the Waterloo-with-Seaforth Urban Council, together with representatives of the University of Liverpool, the chemical industry, and many commercial or political bodies with which Dr. Muspratt had been associated for decades. The Bishop of Liverpool officiated. Sir Max Muspratt, Bart., was the chief mourner; Mr. W. H. Saunders was among the general mourners.

### Manchester

Pharmaceutical circles are once more becoming active. Meetings of every section of the drug trade in Manchester and Salford have been held recently to consider arrangements for the winter session.

There is quite a demand for businesses in the retail drug trade at present, and several have been, or are about to be, opened in Manchester and the surrounding district. Boots, Ltd., have acquired a block of property in Lapwing Lane, Withington. Pike's Pharmacy have opened a branch at 160 Ellor Street, Pendleton, Manchester.

### Sheffield

Junior assistants and apprentices are to be enrolled as associates of the local Society free of charge.

News has been received that Mrs. Charles, daughter of the late Mr. T. Dobb, Ph.C., is among those who escaped during the recent upheaval in Japan.

The President of the Sheffield Pharmaceutical and Chemical Society is offering two prizes for competition among the students. The subjects will be botany, chemistry, physics, *materia medica*, pharmacy and business knowledge.

### Miscellaneous

**THE INSTITUTION OF THE RUBBER INDUSTRY**, Faraday House, 10 Charing Cross Road, London, W.C.2, has issued a programme of the papers to be read during the session 1923-24 before the London, Manchester and Birmingham Sections. An Edinburgh meeting will be held.

**LECTURES ON ESSENTIAL OILS.**—Mr. C. T. Bennett, B.Sc., Ph.C., will commence a course of lectures on essential oils at the Borough Polytechnic Institute, Borough Road, London, S.E.1, on October 5. Courses in inorganic, organic and technical chemistry commence on September 24. The principal will supply details of the courses and fees.

**CANINE DISTEMPER RESEARCH.**—Interesting particulars of arrangements being made for research in canine distemper are given in the first report of the council formed on the initiative of "The Field." Rigid precautions are being taken to ensure isolation, and much ingenuity is shown in the construction of the buildings devoted to the investigation. Dr. C. J. Martin, F.R.S., succeeds Sir William Leishman (now Director-General of Army Medical Services) on the research committee.

**SOUTHAMPTON PHARMACISTS' FOOTBALL CLUB.**—An association football club has been formed by the Southampton Pharmaceutical Association. The officers are: *Captain*, Mr. Hooper; *Vice-Captain*, Mr. W. H. Peney; and *Secretary*, Mr. E. W. Peney, W. Bates & Co., Ltd., High Street, Shirley. The club, whose ground is at Upper Shirley, has joined the Wednesday League, and a good list of fixtures has been arranged. Applications for membership should be made to the secretary.

**Poisonings.**—The following cases of fatal poisoning, among others, have been recorded since our last report: At Portsmouth, on September 10, a verdict of "Suicide while of unsound mind" was returned in the case of a man named Cooper, who died from drinking a corrosive poison. An inquest was held at Swansea, on September 12, on the body of Reginald Trevor Davies, B.A., an analytical chemist. The post-mortem examination revealed that the deceased had taken formalin. A verdict of "Suicide while temporarily insane" was returned.

**IN THE COURTS.**—At North London Police Court, on September 10, Mrs. Flora Salter was charged with using insulting words and behaviour at Southgate Road, Islington, on September 8. It was stated that Mr. H. P. Everett, chemist and druggist, Southgate Road, had been certified insane, and his son, Mr. H. G. Everett, not being satisfied, called upon the Lunacy Aid Society to "picket" the shop to see that his father was not taken away until he had been further examined. Mrs. Salter was one of the "pickets." The defendant was bound over to keep the peace for six months.

**INQUEST.**—At Blackpool, on September 11, the inquest on the body of Harold Dixon, who died from self-inflicted injuries to the throat, was resumed. At the first hearing it was stated that deceased, as the result of an x-ray examination, had received a burn which had developed into a wound 8 in. by 6 in. Mr. Pettitt, radiographer, said the causes of x-ray burns were over-exposure, too frequent application, or using too soft an x-ray. Medical evidence was to the effect that a kind of sunburn after prolonged treatment was common. A verdict of "Suicide while of unsound mind, caused by intense agony due to the burn," was returned.

**SWIMMING GALA.**—Among the events at the swimming gala of the Parke, Davis Swimming Club, held at St. George's Baths, Buckingham Palace Road, London, S.W.1, on September 10, was a handicap open to chemists and their assistants, resulting as follows:—(1) S. F. Dennis (Pierce, Tulley & Co., Camomile Street, E.C.); (2) A. Garden (Mr. D. A. Rees, Loughborough Junction, S.W.); (3) S. C. Springett (Parke's Drug Stores, Ltd., Clapham Junction, S.W.). The team race was won by the representatives of the South-West London pharmacists, Messrs. G. B. Brook, A. Garden, D. A. Rees, S. C. Springett, and F. G. Wells, captained by Mr. O. Atkins. The final for the club shield was won by A. T. Bradford. The prizes were presented by Mrs. Pope, wife of the assistant manager.

**SALE OF FOOD AND DRUGS ACTS.**—In his quarterly report to the Kent County Council the public analyst, Mr. F. W. F. Arnaud, F.I.C., states that whilst every care should be taken by the pharmacist in weighing and measuring drugs, it necessarily follows from the apparatus at his disposal that absolute accuracy cannot be obtained. Neither is great accuracy essential in the case of many components of medicines, but accuracy should be, and generally is, the aim of the dispenser. Even pharmacists do not appear to be clear as to what dispensing error should be allowed, but they feel that where cases of inaccurate dispensing are reported the advice of the analyst should be sought before a prosecution is undertaken.

**DANGEROUS DRUGS ACT CASES.**—At the Old Bailey, London, on September 11, Monty Cohen, tailor, and Margaret Macdonald, tailoress, were sentenced to four years' penal servitude and nine months' imprisonment in the second division respectively for unlawful possession of cocaine.—At Clerkenwell Police Court, London, on September 9, Emanuel Landorff and Alexander Lundberg, Swedish merchants, Coram Street, Bloomsbury, were charged with unlawful possession of cocaine, and offering to supply cocaine to John Radcliff, described as a chemist, on August 31. Defendants pleaded "Not guilty" and were remanded.—At Marlborough Street Police Court, London, on September 1, Edward Roberts, French polisher, and Frederick White, whose occupation was not stated, were each sentenced to six months' hard labour for being in unlawful possession of cocaine.—At Birmingham Police Court, on September 6, Frederick H. Cooper, a clerk to the Ministry of Pensions, was fined £1 and £4 costs for unlawful possession of cocaine, to which, it was stated, he had access during his attendance on medical men at the Ministry's clinic.—At East Ham Police Court, London, on September 12, Lam Sing, a Chinese seaman, was remanded on a charge of being in the unauthorised possession of raw opium, and with importing it into the country without a licence.

## Irish News

### Brevities

While motor-cycling at Drumully, near Clones, recently, Mr. Jas. J. Kerr, Ph.C., Clones, rode into a trench on the northern side of the boundary and received a bad shaking, while his machine was smashed up.

At a recent meeting of the Castlederg Board of Guardians it was intimated that some drugs supplied to the workhouse were reported by the analyst to be below the standard. It was agreed to return the samples.

Mr. Henry Dillon, M.P.S.I., and Mr. John Amberson, chemist's assistant, who were drowned in a boating accident on the river Shannon on September 2 (*C. & D.*, September 8, p. 355), were on the staff of the Longford Drug Co. They had hired a boat, with four others, to go for a sail. Strong currents carried the party over a weir wall, which they came upon unexpectedly, to be dashed against the sluice gates 15 ft. below. Five lives in all were lost, one lady being saved. Both Mr. Dillon and Mr. Amberson were natives of the North of Ireland. Mr. Amberson was a son of Mr. J. Amberson, co. Tyrone, and was 20 years of age. Mr. Dillon served his apprenticeship with Mr. Joseph Gorry Naas and qualified last July.

### Belfast

The Police Committee of Belfast Corporation have granted a licence under the Poisons and Pharmacy Act, 1908, to Mr. George Foundling, of Alex. Dickson & Son, Ltd., seedsmen, Garfield Street, Belfast.

Mr. J. Carroll Culbert, M.P.S.I., Connswater, Belfast, has decided not to offer himself for re-election to the Council of the Pharmaceutical Society of Ireland at the coming election. Mr. Fred Storey, President of the Chemists' and Druggists' Society of Ireland, will again be a candidate.

The name of Thomas McMullan & Co., wholesale druggists, Belfast, is at present being fraudulently used in Liverpool and district by a man who represents that he belongs to the firm, and endeavours to borrow money from the firm's customers. The same individual recently worked London in similar fashion.

The Rev. Alexander Chapman, who died recently, aged eighty-one, and was buried at Matson, near Gloucester, was a native of Malone, Belfast, and before taking Holy Orders was pharmacist at the Royal Hospital, Belfast. At the age of forty he entered the Church, and was curate of Killybegs, rector of Lettermareward, and finally rector of Gweedoe and Dunlewy, all in county Donegal.

### Dublin

Mr. Michael Ryan, Member of the Council of the Pharmaceutical Society of Ireland, has been appointed a Peace Commissioner for the City of Dublin.

The Irish Free State Fiscal Inquiry Committee have held five sittings, and evidence has been given by, among others: Sir Thos. Robinson, Dr. A. J. Barnes, and Dr. J. A. Walsh, representing the Dublin and Provincial Retail Drug Association. The Committee will be in continuous session until the end of the month.

On September 4, in the Northern Police Court, Dublin, John Dawson, Henrietta Street, Dublin, an employee, at present on strike, of Hugh Moore & Alexander, Ltd., Dublin, was charged with intimidating a young lad named Fitzpatrick and with the larceny of his bicycle. The prisoner was returned for trial on bail to the Sessions.

Complaints have recently been heard in the Free State about the delay on the part of contractors in delivering medicines to public institutions. The Local Government Department have pointed out that this is due to delay at the Customs and to strikes at the Port of Dublin and elsewhere. It was recommended that supplies be obtained locally until contractors were able to complete deliveries.

## Scottish News

### Brevities

Quotations for winter remedies are being showered upon retailers.

In the opening football match of the season in the Edinburgh Mid-week League Pharmacy were defeated by Corstorphine Wednesday by two goals to one.

Mr. E. D. Anderson, clerk to the Renfrew Insurance Committee, has written to the "Glasgow Herald," pointing out that a panel practitioner may order any drugs, preparations, serums and vaccines necessary for the treatment of patients regardless of cost, providing he can justify to the satisfaction of the Panel Committee any apparently abnormal expenditure.

### Glasgow

The angling section of the Glasgow Pharmacy Club held the last outing of the season on Loch Lomond on September 4, sixteen members taking part. The day was much enjoyed, in spite of the fact that not many fish were showing themselves, and baskets were light. The result of the day's competition was as follows: (1) Mr U. Moffat; (2) Mr. S. Baird; (3) Mr. G. Macdonald.

The golf section of the Glasgow Pharmacy Club played the third round of the Viro cup over Fereneeza course, Barrhead, on September 4. The weather was ideal and the greens in excellent condition, although sometimes a trifle keen. About thirty players took part. Mr. W. McDavid was the winner with an aggregate of 151, and Mr. Jas. Anderson was runner-up with an aggregate of 163. The autumn meeting will be held over Milngavie course on September 18.

## Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

### Wednesday, September 19

*Sheffield Pharmaceutical and Chemical Society, Church House, at 8.30 p.m. Students' night.*

### Thursday, September 20

*London Chemists' Golfing Society, Enfield. 1st round medal play. Prize by Vinolia Co. 2nd round bogey, Thomson Cup.*

## Bankruptcy Reports

**Re Edward John Richards**, late of 3 Church Court, Richmonde, trading as the "D. S. Disinfectant Co." This debtor again attended before Mr. Registrar Francke, on September 11, at the London Bankruptcy Court, for public examination on accounts showing liabilities £603, against assets *nil*. He started the above business in partnership with another person in March, 1919, and gave it up in September, 1921, owing to bad trade and lack of capital. Mr. Vyvyan, Official Receiver, reported that he had no further questions to put to the debtor and the examination was concluded.

**PERUVIAN CUSTOMS REGULATIONS.**—The Peruvian Customs authorities have issued a notice to the effect that consular invoices must be accurate in every detail, and general descriptions of goods, such as "chemical products," will no longer be accepted, each article must be specifically indicated, with its exact weight or measurement. The invoices must state the declared value of the goods imported, also the net and gross weights, and a plain copy of the bill of lading must be attached. In the case of pharmaceutical specialities, to which the new regulations (*C. & D.*, May 19, p. 703) will apply after September 1, full particulars have to be given as to composition, and especially the name of the maker of each preparation has to be stated in the invoice.

## French News

(From the "C. & D." Paris Correspondent)

THE THIRD INTERNATIONAL CONGRESS OF INDUSTRIAL CHEMISTRY will be opened by M. Dior, Minister of Commerce, at the Paris Conservatoire des Arts et Métiers, on October 22. The usual fifteen groups will be formed, and at the close two days will be devoted to excursions.

PLANT CULTIVATION.—In an article in the "Matin" advocating the cultivation of medicinal plants, M. Brilaud cites Great Britain as an example. "You may see at our School of Pharmacy," he writes, "fine specimens of their belladonna and henbane, plants which England formerly imported from Austria and Belgium." He states that the movement is spreading in France, citing districts near Paris and Lyons, the Forez, the Puy-de-Dôme, and especially the Maine-and-Loire, where some 2,000 acres are planted, principally with chamomile.

ANNUAL GENERAL MEETING OF THE GENERAL ASSOCIATION OF FRENCH PHARMACISTS.—Under a sky of cloudless blue, Bordeaux sweltered in the August sunshine. A white-trousered policeman with a white cap-cover, standing by a straw-hatted horse, directed me to a handsome building in the classic style outside which stood two statues—Science with her emblematic chalice and Nature unveiling herself—very appropriate to the thirsty and warm weather. But the amphitheatre of this Mixed Faculty of Medicine and Pharmacy, where the meeting took place, was one of the coolest places I found in Bordeaux. About 150 delegates were present, representing all parts of France. M. Petit, as President of the Association, was in the chair, supported by M. Collard, the General Secretary, MM. Vaudin and Loisel, ex-presidents, Professors Perrot and Grimbert, of the Paris Faculty, Professor Astruc of Montpellier, and others. The question of raising the amount of the annual subscription in order to strengthen the position of the Association, especially when engaged in lawsuits or instituting proceedings in cases of the illegal practice of pharmacy, was under discussion during the morning. The provincial element generally approved the idea, but M. Bernard, the Paris delegate, intimated that his Society had not invested him with the necessary powers to consent to the proposition, but was outvoted before the meeting adjourned for lunch. In the afternoon the question of tariffs for supplies made to the victims of the war, and to other large bodies generally, was discussed at some length. Various suggestions and statements were made, but it was finally decided to allow the council of the Association a free hand in this matter. The question of charges for medicines supplied to paupers, persons receiving Government assistance, railway servants, etc., is of great interest to French pharmacists, as it seems probable that the whole question of medical and pharmaceutical service will be brought up at no distant date, and that "panel prescriptions," etc., may then form no inconsiderable portion of the French pharmacist's business. The final subject discussed was Professor Perrot's idea of convoking a conference, not of retail pharmacists only, but of delegates of all professions interested in the manufacture and sale of medicaments, to study the new Pharmacy Law and draft a report which would be put into the hands of deputies and senators before the Bill again comes under discussion. There was a feeling that in publishing his proposals Professor Perrot had somewhat neglected the General Association, i.e., the majority of French retailers. The professor had evidently come to Bordeaux to explain that this slight, if slight there was, was entirely unintentional, and in spite of some very frank and searching criticisms, succeeded in convincing the assembly that retailers had everything to gain by supporting his scheme. The real interest of these general meetings does not reside in the resolutions passed, which are generally of an indefinite character, but in the insight they afford of what may be styled the politics of French pharmacy—the trend of opinion and feeling on various professional questions. The discussions are rarely conducted without some stormy scenes, and a speaker seldom commences and closes his discourse amidst comparative silence. But if he has really something to say, and says it well, he is soon granted a fair hearing.

## Colonial and Foreign News

EGYPTIAN CASTOR-OIL DUTY.—For a period of three months, dating from July 28, the following customs charges will be levied on castor oil:—Pharmaceutical, 59 millièmes; first pressings, 52 millièmes; seconds, 49 millièmes, per kilogram.

MEDICINES FOR TURKEY.—According to regulations issued by the Turkish postal authorities, in all parcels addressed to persons or firms in Turkey containing drugs or pharmaceutical preparations of any description, an invoice should be enclosed enumerating each single article and its price.

IMPORT DUES IN FIUME.—Fiume, once Hungary's sole port, has loomed very large on the political horizon since the Armistice, and is now a free town with a somewhat indefinite status pending a settlement of various outstanding points between Italy and Yugo-Slavia, the latter country being particularly interested in this important Adriatic harbour, for which it provides the hinterland. Since October 30, 1918, no customs charges have been levied on goods entering Fiume, but the State and municipal authorities levy dues on certain goods. At present the following State dues are charged by the Fiume Government:—Sodium chloride, per 100 kilograms, 38 lire; ether, per 100 kilograms, 112 lire; medicines and perfumes containing under 15° of alcohol, per 100 litres, 10.50 lire; saccharin, per unit, for 1 kilogram, 0.60 lira.

FOREIGN SPECIALITIES IN PORTUGAL.—The constant fluctuations in the rate of exchange are proving a fruitful source of trouble to pharmacists in countries in which a tax is levied on a percentage basis on proprietary medicines. This is particularly the case in Portugal, where, once the medicine stamp has been affixed to a preparation of this class, the sale price to the public, as indicated on the label and adopted to determine the amount of the tax, cannot be altered. The position is further complicated by the fact that certain individuals have found in proprietary medicines a profitable field for speculation, and Portuguese pharmacists have complained to the government that in the circumstances it is extremely difficult for them to establish a uniform sale price for many foreign pharmaceutical specialities, owing to the absence of any standard values. The declared value for customs clearance purposes of different consignments of the same goods frequently varies within wide limits, with the result that there are many cases in which the same preparation is sold at different prices, and naturally the amount of the medicine tax differs accordingly, a point of some importance to the national revenue. These complaints have been considered by the government, and in a decree issued by the Portuguese minister of commerce it is stated that, while not wishing to place any difficulties in the way of the admission of foreign specialities into Portugal, it has been found necessary to enforce the following guarantees. In future, on clearing pharmaceutical specialities (except free samples) through the customs, the importer will be required to produce a declaration stating the retail price of each preparation contained in the consignment, such price not to be manifestly lower than the current market quotation. Should the custom house official doubt the veracity of the declaration, particularly if the prices declared strike him as being lower than those given for the same preparations in other consignments, and if the importer is unable to prove that the preparations can be sold at the declared prices at a profit, then the official shall refuse to affix the medicine tax stamps until the importer has complied with the requirements set forth in article 33 of the regulations concerning the stamp duty on pharmaceutical specialities of October 14, 1913. The decree also permits holders of stocks of foreign specialities to have these restamped, on making application to the minister of commerce for the necessary new stamps, indicating the number of packages in stock of each speciality and the new retail price. After affixing the new stamps to the packages in question, these will be cancelled by a government official, who will be required to draw up a report for the information of the treasury.

## South African News

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa

### Natal

**UNFAIR TAXATION PROTEST.**—At a meeting of the Chamber of Commerce, Durban, on August 22, reference was made to the deputation of chemists to the Board of Trade and Industries. Mr. Dunkerton said the Customs Commissioner had placed a construction on the Medicine Tax Act which he would not have dared to do when Parliament was sitting. Referring to Mr. P. Duncan's remarks at Bloemfontein on August 16, Mr. Dunkerton said he did not wish to pillory the Minister. He made such glaring mistakes, however, that it was incumbent on him (the speaker) to correct them. The Minister implied that in a weak moment of good nature Dutch medicines were exempted. As a matter of fact, the exemption of these remedies appeared in the first Bill, and representations to Parliament had no effect whatever. The position to-day was that if a person asked for a sixpenny Dutch medicine there was no tax, but if he or she asked for the same thing in English there was a tax of twopence. The chemists intended to ask for some amelioration in the way in which the Act was being administered. By his decisions the Commissioner refused to redeem the promises made by the Minister in Parliament. Mr. Dunkerton was assured by the acting chairman of the Chamber that when the report of the interview was received it would have the sympathetic consideration of the committee.

### Orange Free State

**PATENT MEDICINE TAX DISCUSSION.**—At the South African Government Party Congress, held at Bloemfontein on August 16, a resolution from the Umbilo Division of Durban was submitted, urging the Government to repeal the Patent Medicine Act as being unfair in its incidence and inequitable in its operation. Mr. Champion, in moving the resolution, pointed out that medicine was to the sick what food was to the healthy. He was sure that whoever was responsible for the tax had had no idea that the tax was going to be unfair and inequitable. Incidentally he mentioned that one of the most serious aspects of the matter was that the tax was causing racial jealousy. Certain proprietary medicines labelled in English were taxed, while other proprietary medicines bearing Dutch labels were free from taxation. This, he thought, was a further factor causing dissatisfaction. The Minister of the Interior (Mr. Patrick Duncan) asked whether doctors approved of these patent medicines. Did the delegates think it good that babies should be given alcohol and laudanum to send them to sleep or keep them from crying? (Cries of "No.") It would be better if they had never seen lots of these patent medicines. (Applause.) Then let them compare the prices with the cost of the materials of which they were composed, and the tax would seem a fleabite compared with the profits made. Millionaires had been made out of the profits of patent medicines, which were sold largely on account of the way in which they were advertised. (Applause.) It was true that Mr. Burton, the Finance Minister, had in a soft-hearted moment exempted old Dutch remedies much used in the country districts. If there were hardships, however, he hoped that the chemists would make representations to him, because the Government did not wish to tax harshly or unduly. (Applause.) Other delegates vigorously protested against the tax, but the resolution was defeated by a fairly large majority.

### Pharmaceutical Society of Cape Province

THE recent legislative proposals, vitally affecting pharmacy in South Africa, have led to a movement for federating the various pharmaceutical societies in the Union. The need was felt, during the Parliamentary stages of the Medicine Tax Act, of a committee representative of the societies that could act promptly. In

view of other proposals which will come before the Union Parliament, the opportunity should be taken to bring the co-operation scheme to maturity as quickly as possible. The Pharmaceutical Society of the Cape Province has accordingly issued the following memorandum dealing with the subject :—

We wish to invite your attention to the grave dangers that confront our craft in the immediate future. These dangers are very real, and unless we are prepared to take united steps at once to protect our interests, the consequences will be fatal to us as a body. The experience that we have just passed through in connection with the Medicine Stamp Act should convey a warning as to how easily a grave injustice can be perpetrated on the body Pharmaceutical through lack of co-operation and unity of purpose. We feel most strongly that this state of affairs should not exist and that immediate steps should be taken by all Chemists in the Union to show a united front at all times.

One of our foremost aims must be to work for the repeal of the Customs and Excise Duties Amendment Act, 1923, as far as it relates to the levying of an extra duty on patent and proprietary medicines, and also on pure drugs when labelled with informative and safe-guarding labels by means of Excise stamps. The Minister of Finance is not going to give effect to his reiterated assurances that household remedies should be exempted, as witness the following letter dated the 17th July, signed by the Commissioner of Customs and Excise, copies of which have been sent to all the members of a committee of chemists in Cape Town :—

"I have the honour to acknowledge receipt of your letter of the 11th inst., and to say that the recommendations referred to you regarding household remedies have been given most careful consideration by me, and I regret I am unable to support your plea for exemption from the Stamp Tax."

The assurance to exempt household remedies caused—we make bold to say—the withdrawal of a very great deal of opposition to the Bill in its passage through the House. Through this refusal you will realise the serious position in which all chemists have been placed and the necessity for fighting the unreasonable attitude which has been taken up by the Government. This Bill has now been in force long enough to show how detrimental it is to our livelihood. Repeal can only be effected by the Legislature, and we must work toward that end.

The proposed Food, Drugs and Disinfectants' Act directly challenges our status and must be stubbornly opposed by every chemist in the Union. We direct your attention in particular to the following clause, namely :—

No person shall sell any mixture or compounded food or drug without fully informing the purchaser at the time of sale of the fact and nature of the mixture, unless the package in which it is delivered to the purchaser bears a conspicuous label distinctly showing that the article is a mixture and the proportion of the ingredients when so prescribed; provided that this requirement shall not apply to :—

- (i) a mixture dispensed by a medical practitioner, or supplied on the prescription of a medical practitioner, dentist or veterinarian;
- (ii) a mixture supplied by a pharmacist for immediate consumption on his premises;
- (iii) a drug or food which is a proprietary article or is the subject of a patent in force and is sold in the condition required in the specification of the patent.

This means that the prescription of a doctor and the formula of the genuine patent medicine are inviolate, but the recipe of any of your preparations must be disclosed. You can judge from the foregoing that the full effect of such an Act would fall solely on the shoulders of the chemist to such an extent that it would be impossible for him to conduct his business and renders him liable at any time to a criminal action. This clause is a direct restraint of the rights and privileges which the chemist possesses by virtue of his qualification. It thus appears that legislation which directly attacks our status as chemists is being introduced by the Government in Bills such as the foregoing when such matters should be dealt with; if at all, in the Medical, Dental and Pharmacy Bill. This, we consider, to be "hole and corner" legislation and an unjustifiable precedent which must be opposed.

The Medical, Dental and Pharmacy Bill, which is of such vast importance to us, is a case in point where unity of co-operation would have resulted in greater benefits being secured by us as a body.

We urge most strongly that a determined effort be made at once to unite for our common protection. We find this

spirit of co-operation abroad in every walk of life to-day.

In order to bring about this unity of purpose and action we suggest that co-operation on the lines of the Chambers of Commerce will be our best policy. Every chemist should join one or other of the existing Pharmaceutical Societies and should give his chosen society his unswerving and loyal support.

The various societies should then federate and appoint a committee to manage all affairs which crop up from any quarter affecting the interests of chemists as a class.

It appears to us—again following the example of the Association of Chambers of Commerce—that the proposed committee can best attain its object by being divided into two sections, namely, Northern and Southern, either of which could only work under confirmation of the other. The Northern Executive would be in close touch with the Government Departments in Pretoria, and the Southern Executive would deal particularly with matters when Parliament is sitting.

The committee, however, could not function unless it was on a firm financial basis, and we consider that such committee should have at least £1,000 at its disposal. This sum may appear large, but the experience of the recent deputation in connection with the Stamp Tax, and which cost over £300, shows that the sum mentioned will be necessary in view of the large amount of serious work to be done. There are 500 chemists' businesses in the Union, and it is surely not too much to suggest that an average of £2 per head is too much to pay in order to make a big fight to establish our rights. There are a large number of qualified chemists not at present in business on their own account, and it is obvious that their interests are as much at stake as anyone else's. From these, too, the committee is entitled to look for the fullest measure of support.

We feel that the foregoing is of such vital importance to chemists that we are justified in asking you seriously to consider the whole question without delay. The sincere co-operation of every chemist in the Union is now essential to safeguard our rights and interests as chemists and druggists.

We suggest that a conference of delegates from the various societies in the Union be held in order to thresh out details and to evolve a workable scheme to bring into effect an association such as we have outlined.

### Pharmaceutical Society of the Orange Free State

A GENERAL MEETING was held in the Society's room, Bloemfontein, on August 1, at 8 p.m. There were present : Mr. Fyfe (President), Mr. Weller (Secretary), Messrs. Reid, Taylor, Carter and Ingram (members). Agreement was expressed with the Transvaal Society in asking for "the total withdrawal of the Patent Medicine Stamp Tax owing to its unworkable nature" rather than the Cape Society's proposal to ask for exemptions. Letters from Mr. A. Lomax Heilbron in reference to the formation of a South African Pharmaceutical Society were discussed at length.

The proposition of Mr. Reid, seconded by Mr. Carter, "This Society considers it desirable that a Central Pharmaceutical Society be formed, to which existing Societies should affiliate," was unanimously carried.

A special meeting of the Society was also held on August 10, when the following resolution proposed by Mr. S. Taylor was carried unanimously :—

That it is desirable to form a South African Pharmaceutical Society, i.e., a central body representing the whole of South Africa, whilst still maintaining the existing local societies. Further, it having been suggested by several correspondents, both official and individual, that Bloemfontein is favourably situated for the holding of a conference, the secretary be instructed to communicate with all South African Pharmaceutical Societies, proposing a conference, consisting of two delegates from each, and to meet in Bloemfontein on Monday, September 3, and that delegates be empowered to inaugurate such a central body.

A circular letter advocating a unified South African Pharmaceutical Society was sent to the Cape, Transvaal and Natal Pharmaceutical Societies, the Northern District Chemists' Association, Kimberley, Cape Province, the Maritzburg Chemists' Association, Maritzburg, Natal and the Eastern District Pharmaceutical Association, East London, Cape Colony.

## New Companies and Company News

P.C. means Private Company and R.O. Registered Office

WILLIAMS PHARMACY, LTD. (P.C.).—Capital £100. Objects : To carry on the business of chemists, druggists, drysalters, oil and colour merchants, etc. W. Mistlin, 233 Jamaica Road, Bermondsey, S.E., dental assistant, is sole director. Solicitor : L. C. L. Sparks, 161a Strand, London, W.C.

ROBINSON, NELSON & CO., LTD. (P.C.).—Capital £5,000. Objects : To take over the business of dealers in laboratory apparatus and furnishings, carried on by Robinson, Nelson & Co., at 378 City Road, Manchester, and to adopt an agreement with A. E. Robinson and R. S. Rack. R.O. : 378 City Road, Manchester.

STIRLINGS, LTD. (P.C.).—Capital £2,000. Objects : To acquire the business carried on by B. Stirling at Kingston-on-Thames, and to carry on the business of chemists, druggists, drysalters, oil and colourmen, manufacturers of and dealers in photographic apparatus, materials and appliances, opticians, etc. R.O. : 17 Clarence Street, Kingston-on-Thames.

SARGOL CO., LTD. (P.C.).—Capital £1,000. Objects : To acquire the business carried on by the Sargol Co., together with the trade mark Sargol, No. 412,968, used in connection therewith, and to carry on the business of manufacturers, importers and exporters of and dealers in proprietary and patent goods and foods and all kinds of medical, pharmaceutical and chemical articles, etc. R.O. : 34 John Street, Bedford Row, London, W.C.1.

RADIOSAN, LTD. (P.C.).—Capital £10,062 10s. Objects : To adopt an agreement with C. C. Labin and Sir William Marcus C. B. Whyte to acquire the premises referred to therein, together with the trade-mark "Radiosan," and to carry on the business of manufacturers and sellers of a preparation known by the said name, and that of manufacturers of and dealers in medicines, medical preparations and drugs, chemists, druggists, chemical manufacturers, etc. The permanent directors are Sir William Marcus C. B. Whyte, 31 Hill Street, S.W., and C. C. Labin, 167 Westbourne Grove, W. R.O. : 25 Duke Street, St. James's, London, S.W.

PARKE'S DRUG STORES, LTD., announce a dividend on preference shares for the half-year ended August 31 at the rate of 6 per cent. per annum.

BURT BOULTON & HAYWOOD, LTD., announce a final dividend of 4 per cent., free of tax, on Ordinary shares, making 8 per cent., free of tax.

THE BRITISH CASEIN CO. (1911), LTD.—The creditors and shareholders of this company met on September 5 at the Board of Trade offices, London, W.C. Mr. G. W. Pepys, Official Receiver, reported that the company was formed in February 1911, with a nominal capital of £2,100 to acquire and carry on the business of the British Casein Co., Ltd. The old company had been registered in 1907. Dividends were paid up to the end of 1917, but subsequently the company gradually decreased, owing to lack of working capital. The accounts filed under the liquidation showed liabilities £1,817 to rank against assets £945, but intimation had been given of a claim for £992 by a Buenos Aires firm in respect of 417 bags of casein delivered after the making of the winding-up order. The liquidation was left in the hands of the Official Receiver.

The imports of Norwegian cod-liver oil into the United Kingdom during 1922 amounted to 13,132 hectolitres, or 11,320 barrels.

CATALOGUES FOR MEXICO.—H.M. Consul-General at Mexico City draws the attention of British traders sending catalogues to Mexico to the necessity for arranging for the payment of the recently imposed duty on such literature. Delivery is not permitted before this duty has been paid.

## Pharmaceutical Botany

### XXII. The Flowering Plant and its Parts

BEFORE proceeding to the description of the various flowering plants included in the pharmaceutical syllabus it is advisable to outline the origin and development of the various parts. A convenient starting point is the seed itself, and the student can readily germinate beans if these are given a preliminary soaking for an hour or so before being planted in small plant pots an inch below the surface of damp garden soil mixed with loam, and kept at a temperature of 15° to 20° C. The first sign of growth is protrusion of embryonic root or "radicle" within a day or so. In about a week the embryo or young plant within the seed will have passed through the four different stages shown in Fig. 61. The seed is the initial

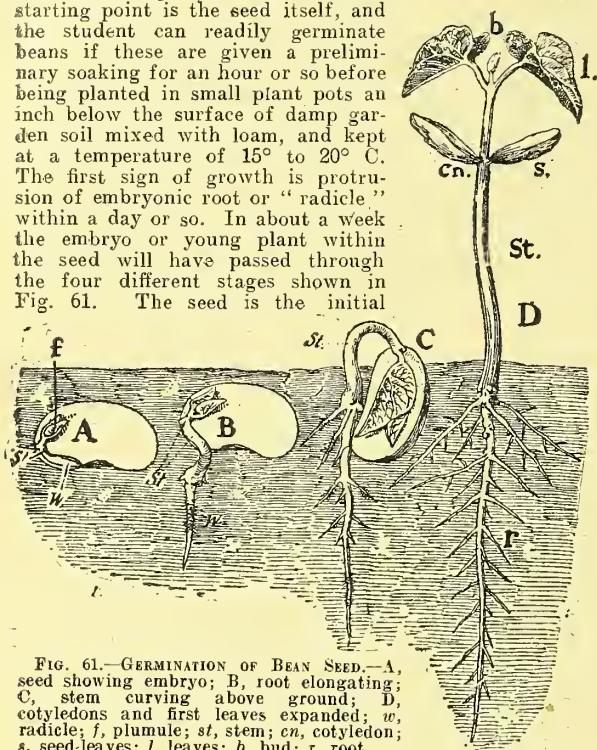


FIG. 61.—GERMINATION OF BEAN SEED.—A, seed showing embryo; B, root elongating; C, stem curving above ground; D, cotyledons and first leaves expanded; w, radicle; f, plumule; st, stem; cn, cotyledon; s, seed-leaves; b, bud; r, root.

resting-place of flowering plants. It contains a young plant or embryo formed by division of the fertilised egg, which only ceases to grow when the ovule has become converted into a ripe seed (on completion of resistant seed coat). Not only is this embryo nourished by the parent plant, but a supply of reserve food material is included within the seed coat to give this seedling a start in life when it resumes growth or germinates. All the parts of the young plant are present in the small embryo embedded between the two cotyledons of the bean seed. The branching root is a direct continuation of the primary root or radicle, the plumule or first "bud" terminating the embryonic stem gives rise to the leaves and the apical

bud. In this example the cotyledons or seed leaves appear above ground and become leaf-like as their store of reserve food is exhausted in providing for the growth of the seedling until it becomes self-sustaining. The rapid formation of leaf surface is to ensure this objective. For comparison Fig. 62 shows the structure and germination of a grass seed. In this the bulk of the reserve food is outside the embryo proper. It is a development of a second nuclear fusion, and is called endosperm. Seeds in which this endosperm persists are called albuminous (most Monocotyledons). In many Dicotyledons, as in the bean, the embryo grows at the expense of the endosperm which disappears, and the seed is "exalbuminous." The noteworthy features in germination of grass seedling is the early production of secon-

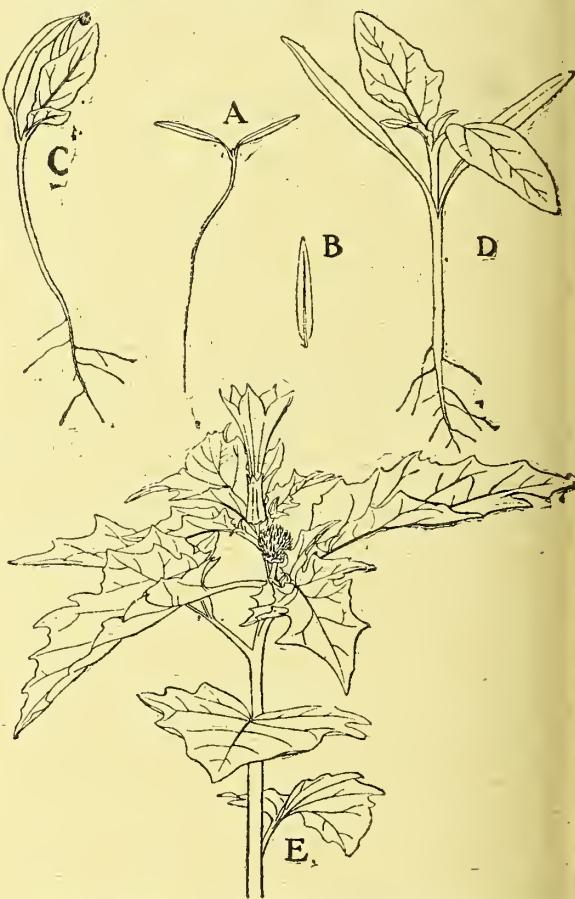


FIG. 63.—THORN APPLE (*Datura Stramonium L.*).—Successive stages of growth. A, seedling with cotyledons expanded; B, separate cotyledon; C, second stage with first leaves; D, first leaves fully expanded and second pair of leaves growing; E, flowering branch of adult plant.

dary (adventitious) roots, and the cotyledon remains within the seed as an absorptive organ. Further details of seed development will be given later in connection with fruit formation. The young plant passes through a series of transformations in forming the adult individual. An excellent example of the stages in a simple herbaceous annual is given in Fig. 63. Note that the first leaves or cotyledons are quite different from all others, also that the earlier formed leaves are simpler in outline than the leaves developed on the mature plant. In tree types of plant some years may elapse before mature form is attained.

THE British Red Cross Society, 19 Berkeley Street, London, W.1, is appealing for collectors in connection with the "British Empire Cancer Campaign."

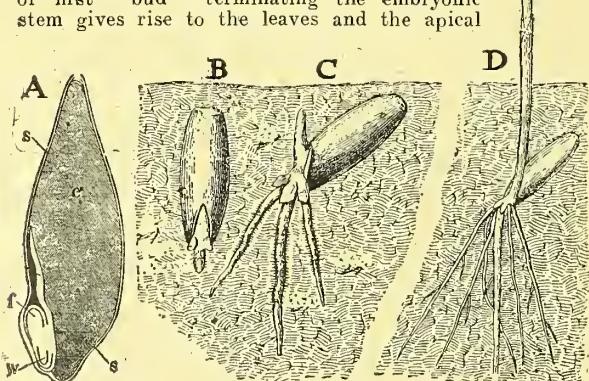


FIG. 62.—GERMINATION OF GRASS SEED.—A, grass seed in section; B, C, D, successive stages in germination; e, endosperm; f, plumule; s, seed-coat; w, radicle.

## Northern Ireland Pharmacists

A MEETING of licentiates of the Pharmaceutical Society of Ireland, resident in the Northern area, was held in the rooms of the Chemists' and Druggists' Society, Belfast, on September 5, for "discussing and formulating a plan of action to preserve the privileges and rights of the licentiates in the area" (*C. & D.*, September 8, p. 347). About forty pharmacists attended, including representatives from Cookstown, Newry, Enniskillen and other provincial centres. Mr. R. G. McKinstry acted as secretary. Mr. M. McDonald, President of the North Irish Pharmacists' Association, moved that Mr. J. E. Connor, J.P., Ph.C. (Newry), take the chair, and Mr. R. W. McKnight seconded. Mr. Connor, in opening the proceedings, said it was one of the most important meetings they had yet held. The secretary said that Mr. Samuel Hogg had written suggesting that Northern Ireland should become connected with the Pharmaceutical Society of Great Britain. Mr. Dale, writing on behalf of the Derry pharmacists, suggested reciprocity between the North and South, and said they were in favour of preserving intact the rights and privileges of the licentiates of the Society. The chairman reminded the meeting that they had come to a point when it would have to be decided whether there would be a separate society for the North. It was a very difficult matter to say anything upon without it being misinterpreted or misconstrued; politics must not be touched on in any way; they were met to discuss the question from the point of view of the craft.

### REPORTS OF THE CONFERENCE

Mr. W. J. Hardy, who had represented the Pharmaceutical Society of Ireland, and Mr. M. McDonald, President of the N.I.P.A., then gave accounts of the conference convened by the Ministry of Home Affairs for Northern Ireland, and held on July 25 (*C. & D.*, August 4, p. 169). The former said that Mr. Megaw, the Parliamentary Secretary, approached the matter on behalf of the Government in a fair and honourable way. But it was clear he had not previously had knowledge of the ramifications of the society and of all the issues involved. He (Mr. Hardy) hoped it would be possible to solve the question by setting up a Northern Committee and leaving the Society to continue as the licensing authority. Mr. McDonald urged the importance of the qualification question. He was averse to the breaking up of the Society, but they were not out to obstruct the Government of Northern Ireland. He did not know what difficulties had arisen that caused the conference to be held, and the Minister was not in a position to tell him. They had discovered, in fact, that Mr. Megaw was not so familiar with the subject as the Home Office circular convening the conference led them to believe. In the course of the ensuing discussion, Mr. Lancashire said they should accept the inevitable, as the Government had said there must be a change. The Government had treated them courteously by inviting them to a conference. They must recognise the changed conditions in the Government of Ireland. Mr. H. Todd thought it was premature to say there must be two societies. The pharmacists did not want two societies. The chairman agreed, but said the point was to devise steps to safeguard their rights if there must be a change. Mr. Lancashire said, if possible, they all wanted one society; but was it possible? Mr. Hardy asked why the two Governments could not co-operate in the matter. He believed the best course for the trade to take was to ask that the P.S.I. be retained as the licensing authority for the whole country. He admitted there must be some body in Northern Ireland to which the Government could look in connection with the administration of the poison and pharmacy laws. He believed the course he suggested was perfectly legal. Mr. Mann wanted to know how the solicitors and doctors got over the same difficulty. The chairman replied that they were specially dealt with in the Act. Pharmaceutical chemists tried to get their case dealt with, but were unable, as they were too small a body. Mr. Hardy: Then we are too small to divide. Mr. Todd asked if the Government would proceed without another conference? The secretary replied that the

Government had asked for recommendations from the various organisations. Mr. Rankin, jun., asked if they had any guarantee that the P.S.I. would be allowed to carry on for the twenty-six counties by the Southern Government? Mr. Dundee said if the Government was going to have a separate society, it would be better to have a committee to co-operate with it. Protest meetings would be no use. The best course would be to help the Government and get their charter improved. The chairman said that was not a protest meeting. They were only seeking to preserve their rights. Mr. Hardy said they were in no way opposed to the Northern Government in any shape or form. The Government could not have acted otherwise. Mr. McKnight said they should stick to the parent society, and, if necessary, have a committee for the North. They were not going to run their heads against the Northern Government. Mr. Edwards said the committee appointed in 1921 to deal with the question was now in existence. His view was that if they must separate they should have a complete severance, with their own rooms, their own council, and their own examiners. Northern solicitors had their own examinations now. Mr. Culbert said it was a gratuitous assumption that the P.S.I. would continue to function in Northern Ireland. He had information from a reliable Southern source that the Free State Government intended to wipe out the society and intended to make the administration of the Pharmacy Acts part of the functions of one of their Ministries. Mr. McDonald next spoke.

### NORTHERN EXECUTIVE SUGGESTED

Mr. Adams suggested a Pharmacy Board for Northern Ireland to carry out the matters referred to by the Parliamentary Secretary. He did not mean a new Pharmaceutical Society but an executive for the North. Mr. Andrew Wilson thought there should be a committee to help the Government. At present the Southern members were approaching their Government. He moved that a committee be appointed to deal with the whole matter. Mr. Mann seconded the resolution, which was adopted. Several members then inquired what instructions would be given the committee. Mr. Dundee said he dissented from the resolution, which should have stated the instructions on which the committee would act. Mr. Wilson said it was rumoured the registered druggists were very active in the matter and were in touch with the Government. It was time the chemists got in touch with it, too. Mr. Lancashire said that if the Government did not get definite proposals from the trade, it would act without them. Mr. Hardy said a great deal depended on whether or not the two Governments would co-operate. If not, there would have to be a separate society or some body for Northern Ireland. Mr. Guiler said he was chairman of the 1921 committee, which should be allowed to lapse. He was not in favour of a separate society, but if there was to be a change, the best way would be to carry on with a Northern Committee. A society for Northern Ireland would be in financial difficulties unless the Government helped it. We do not want, added Mr. Guiler, to be swamped with registered druggists coming in. It was eventually agreed that the committee should ask that the P.S.I. should be continued as the licensing authority for Northern Ireland, and for an Executive Committee for the North, if changes were to be made. Mr. Dundee accordingly withdrew his opposition. Mr. McKnight moved the appointment of a committee, which was finally constituted as follows:—Messrs. H. Lancashire, J.P. (Ballymena), W. S. Taylor (Enniskillen), S. McKenney (Cookstown), A. W. Mann (Lurgan), M. McDonald (Belfast), S. Dale (Londonderry) J. Adams (Belfast), W. J. Hardy (Belfast), J. E. Connor, J.P. (Newry), J. Guiler (Belfast), with Mr. R. G. McKinstry as secretary. Mr. Connor was heartily thanked for his services in the chair on the proposition of Mr. Lancashire, and the meeting, which lasted two hours, ended.

AN illustrated description of some of the processes carried out at the Ucal works, Cheltenham, appeared in the "Bristol Times and Mirror" of August 14.

## Proprietaries in Greece

NEW regulations, embodied in a law consisting of eleven articles, dealing with the sale and importation of proprietary preparations, have now been issued in Greece. Article I forbids the introduction, sale, importation and advertisement of "secret remedies, pharmaceutical specialities, artificial mineral waters, dietetic products, and toilet requisites, such as preparations for the care of the teeth, hair dyes, etc., unless duly licensed by the minister for health and economics. In order to obtain the necessary licence to manufacture and sell articles falling within the above description, of Greek origin, an application must be made to the minister setting forth:—(1) the composition of the preparation, quantitative and qualitative, with directions for use; (2) a statement to the effect that the applicant is a scientifically trained physician, pharmacist or chemist, and a Greek subject. An original package of the product has to accompany this application, while the fee for registration is fixed at one hundred times the retail sale price of the smallest package issued, this amount has to be paid to the State when presenting the application for a licence. Applications will be submitted to the medical board for examination; the latter appointing a commission consisting of three members, one a chemist and one a pharmacist, the choice of the third member depending upon the nature of the preparation submitted. Article III provides that the chemical and microbiological examination of such preparations shall be undertaken in the central laboratories attached to the ministry of health, while the clinical and biological tests will be carried out by the special member of the commission either in the hospital attached to the ministry or in a university clinic. Half of the fee payable on making an application for a licence, referred to above, will be devoted to remunerate the commission, the chemical member receiving one-half of the amount available and the other two members sharing the remaining half. Basing on the statements submitted by the commission, the medical board will embody its opinion regarding the preparation in a report to the minister, with whom the final decision rests. If the preparation is approved of and a licence issued, the principal ingredients must be indicated on the label and also in all advertisements, as well as the directions for use and the retail price. No licence will be granted for preparations which are included in the pharmacopœia, or which are not original either as regards method of preparation or composition, as well as those containing dangerous drugs, or drugs with a powerful odour, or substances discredited by science as remedies, or drugs in therapeutically excessive doses. In order to obtain a licence to import and market in Greece a foreign preparation coming within the definition laid down in Article I an application has to be made in the form set forth in the foregoing, and the prescribed fee paid; however, together with the application an official declaration must be presented, duly legalised by a Greek consul, certifying that the preparation has received the approval of a foreign medical academy or of an official medical board. In the absence of a declaration of this kind, a licence to import and sell in Greece a registrable product may be granted to a scientifically educated foreign manufacturer provided that the preparation in question may be freely sold in the country of origin. In the latter case the medical board will deal with the product in the same way as if it were of Greek origin, submitting it to analysis and examination in the usual way. Article VII stipulates that all licences hitherto granted to manufacture, import and sell the above described classes of goods will remain valid. Medicinal preparations for which a licence has been issued may be sold only in pharmacies or approved wholesale drug houses; in the case of licensed non-medicinal products coming within the description set forth in Article I (toilet and dietetic preparations), the medical board in its report to the minister will stipulate in each instance under what conditions the article may be sold by others than pharmacists. The Greek customs officers are in-

structed not to permit the importation of any goods coming within the scope of this law except on production of the prescribed licence, or of an official copy of the original document. The penalty for contravention against any of these provisions is imprisonment of not less than three months, and a fine not exceeding 5,000 drachma; the articles seized will be confiscated by the police. Compared with parallel legislation recently enacted in other countries, the Greek regulations present a far-reaching innovation, inasmuch as toilet preparations are classed together with pharmaceutical specialities, and submitted to the same control as the latter. Further, no definition is given of what constitutes a speciality, and it remains to be seen how this important omission will affect decisions and distinctions. The method of remunerating the commission entrusted with the examination of preparations is distinctly novel, particularly as the amount available depends upon the sale price of the product multiplied by one hundred. Since the disclosure of the chief ingredients on the label, etc., is required, the inclusion of "secret remedies" in Article I. seems superfluous. Although introducing the system of licensing specialities, Greece has not followed the example of other countries, and does not require the mention of a registration number on labels.

## Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (1s. each including postage) of British patents can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

**Extracting Tin.**—A process for extracting tin from tin-plate scrap by dissolving the tin in a solution of stannic chloride or ferric chloride under reduced pressure. (C. Clerc and A. Nihoul, 181,722.)

**Purifying Mineral Oils.**—Mineral oils, and particularly naphtha, are treated with chlorine in the form of an aqueous solution of hypochlorous acid or chlorine water and the treated oil distilled. (A. E. Dunstan, D.Sc. 201,223.)

**Removal of Phenol from Waste Waters.**—The water is intimately mixed with benzol or its homologues and the phenol extracted by combining it with sodium hydroxide. (E. Posseyer Abwasser und Wasserreinigungs G.m.b.H. 175,285.)

**Cyanides.**—A process of making an alkali-metal cyanide by heating in contact with nitrogen a mixture containing an alkali-metal compound (for example, sodium carbonate) and a catalyst (preferably iron or iron oxide and carbon). (E. I. Du Pont de Nemours & Co. 200,902.)

**Formic Aldehyde.**—This is produced from carbon monoxide and hydrogen, in the presence of water vapour, characterised in that the mixture is passed at a temperature of about 240–350° C. over a porous contact substance such as porcelain or pumice stone. (A. Heinemann. 179,951.)

**Evaporation of Blood Serum.**—An apparatus for evaporating blood serum and other liquids, consisting of a chamber having superposed trays containing the liquid, and provided with hot air pipes so disposed as to circulate the hot air beneath and above the trays. (M. W. Mills and E. Ramsbottom. 202,082.)

**Colloidal-chemical Processes.**—To a suspension of a substance to be purified is added an electrolyte which converts the ions which hinder peptisation in the suspension into a substantially undissociated compound and at the same time has a peptising effect on the particles to be purified. (Elektro-Osmose A.G. 200,533.)

**Disinfectant Washing Powder.**—A mixture consisting of:—

Powdered soap ... ...	30 per cent.
Soda ash (58 p.c. pure alkali)	30 per cent.
Common soda ... ...	30 per cent.
Carbolic powder (50 p.c.) ...	10 per cent.
(A. Grimshaw. 200,033.)	

## Births

Notices for insertion in this column must be properly authenticated

DAVIES.—At Whitchurch, on September 9, the wife of E. Stanley Davies, chemist and druggist, Pontycymmer, of a daughter.

LATTY.—At "Stoke Cliff," Stapleton, Bristol, on September 6, the wife of William J. Latty, M.P.S., late of Bath, of a daughter.

MCINROY.—At a nursing home, Rossett Avenue, Liverpool, on September 8, the wife of J. Frank McInroy, M.P.S., a daughter.

## Marriages

CORLETT—KELLY.—At Kirk Michael, Douglas, on September 4, Thomas Neil Corlett to Mary Elizabeth Kelly, chemist and druggist, youngest daughter of Mr. J. E. L. Kelly, Kerrocoar, Kirk Michael.

CUMMINGS—MITCHELL.—At the County Hotel, Stirling, on September 11, by the Rev. R. Thomson, B.D., minister of Alloa, Gordon Cummings, chemist and druggist, son of Mr. John Cummings, chemist and druggist, 21 Mill Street, Alloa, to Susan, daughter of Mr. J. Mitchell, Alloa.

DENSEM—MANT.—At St. James's Parish Church, Emsworth, on September 3, Harold Densem, chemist and druggist, Exeter, to Nora Mant, Emsworth.

PERRINS—MILNE.—At St. John's Church, Chelsea, London, S.W., on September 6, C. W. Dyson Perrins, D.C.L., son of the late Mr. J. Dyson Perrins (Lea & Perrins, Worcester), to Frieda, youngest daughter of the late Mr. John Milne, Belmont Cheadle, Cheshire.

SADLER—STRUTHERS.—At Newlands, Glasgow, on September 11, by the Rev. H. McColl (uncle of the bride) and the Rev. W. McLeggen, Henry James Sadler, M.P.S., Crawley, to Lillian, daughter of the late Mr. W. Struthers, "Kirklea," Newlands.

THOMAS—STEWART.—At Springburn Parish Church, Glasgow, on September 3, Hugh Williams Thomas, chemist and druggist, son of Mr. W. J. Thomas, 63 Gourlay Street, Springburn, to Agnes, eldest daughter of Mr. R. Stewart, 34, Gairbraid Avenue, Maryhill.

WILLIAMS—LUETCHFORD.—At Queen's Road Primitive Methodist Church, Watford, recently, Mr. Percy Williams, chemist and druggist, to Cissie, eldest daughter of Mr. E. J. Luetchford, Watford.

## Deaths

ALBRIGHT.—At 17 Wellfield Place, Dingle, Liverpool, on September 4, Sarah Amy, the wife of Mr. Alfred Albright, chemist and druggist, late of Bootle.

ARNOLD.—At the Pharmacy, Cwmavon, Glamorgan, on September 10, Frances Mary, beloved wife of Mr. H. S. Arnold, chemist and druggist, Past-President of the South Wales and Monmouthshire Federation of Chemists, and mother of Mr. A. H. Arnold, chemist and druggist, South Africa, and Mr. F. B. Arnold, F.C.S., chemist and druggist, of S. F. Goss, Ltd.

DAVISON.—At 25 Camp Street, Lower Broughton, Manchester, on September 3, Minnie, wife of Mr. J. Lyle Davison, chemist and druggist. Interred at Kersal, September 8.

HARTRIDGE.—At 12 Wimpole Street, London, W.1, on September 8, Mr. Gustavus Hartridge, F.R.C.S., M.R.C.P., L.S.A., aged seventy-three. Mr. Hartridge, who was a well-known ophthalmic surgeon, is the author of several books on diseases of the eye.

SIMPSON.—The death is reported, as the result of the recent earthquake in Japan, of Mr. Herbert Randolph Simpson, chemist and druggist, son of Mr. T. P. Simpson, Blackburn. Mr. Simpson, who had been three years in the Far East, passed the Qualifying examination in 1909.

## Personalities

MR. JOHN ROBERTS, C.A., chemist and druggist, Clirwen, Rhayader, has been appointed a justice of the peace for Radnorshire.

WOR. BRO. FRED BASCOMBE, Ph.C., P.A.G.St.B., secretary of the Galen Lodge, has been appointed by the Earl of Shaftesbury, Provincial Grand Master, to the office of Past Provincial Senior Grand Warden of the Province of Dorset.

MR. W. W. STORER (S. H. Travis & Co., manufacturing chemists, 33-35 Kings Road, London, N.W.1) has left London for an extended tour, which includes Egypt, Straits Settlements, Siam and Japan. He is accompanied by Mr. J. Goldstein, of the New British Drug Co., Cairo.

THE memory of the late Mr. W. H. Scott (Scott & Turner, Ltd., Newcastle-on-Tyne) was honoured on September 9, when memorial colours were dedicated at a church parade service in Newcastle Cathedral. The late Cadet Lieutenant-Colonel W. H. Scott was President of Newcastle Batt. of the Boys' Brigade for twenty-five years.

DR. ANDREW BALFOUR, C.B., C.M.G., F.R.C.P.E., for the past ten years director-in-chief of the Wellcome Bureau of Scientific Research, London, resigns that position on October 31, 1923. Subsequent to this date his address will be c/o Royal Society of Tropical Medicine and Hygiene, 11 Chandos Street, Cavendish Square, London, W.1. Dr. Balfour will be succeeded by Dr C. M. Wenyon, C.M.G., C.B.E., M.B., B.Sc., who for the past nine years has been director of research in the tropics at the Wellcome Bureau of Scientific Research, and has now been appointed director-in-chief of that institution.

## Wills

MR. ERNEST WILLIAMS, chemist and druggist, 81 Marlborough Road, Falmouth, who died on February 8, left estate of the gross value of £2,167 1s. 9d., with net personality £1,745 12s. 5d. Probate of the will has been granted to his widow, Mrs. Josephine Williams.

MR. WILLIAM NORMAN WOOD, chemist and druggist, 37 Market Place, Pickering, who died on July 9, left estate of the gross value of £4,397 18s. 3d., of which £912 8s. is net personality. Probate of the will has been granted to his widow, Mrs. Florence Gwendoline Wood.

MR. JAMES FINLAY, Ph.C., 1 Forbes Road, Edinburgh (Paton & Finlay, 177 Bruntsfield Place, Edinburgh), who died on May 22 last, left personal estate in England and Scotland valued at £6,656 15s. 10d. Probate of the will has been granted to John Duncan, 19a Inverleith Row, Edinburgh, James Finlay, 1 Greenbank Crescent, Edinburgh, chemist, and John Paton, 17 Merchiston Place, Edinburgh.

MR. HERBERT EDMUND KING, Rest Harrow, The Common, Woodgreen, near Salisbury, of Hodgkinson, Prestons & King, wholesale druggists, 262 Bishopsgate, London, E.C., who died on August 1, left a fortune of £36,137 15s. 5d., of which £35,067 9s. 2d. is net personality. The executors are Sydney W. Tubbs, The Glebe, Hadley Common, and Humphrey W. Morris, 2 Walbrook, E.C. He gives £100 to his wife, £100 each to the executors, and the residue to his wife for life, and then as to £4,000 as she may appoint, £1,500 each to the eight daughters of his brothers Walter, Edward and Percy, and of his sister Eliza, and the residue to his niece Amelia Vera King.

CHOREOGRAPHIC CHEMISTRY.—"Lydia Lopokova and her company are presenting a repertory of dances, the best of which are the Chopin walse (from the ever-memorable 'Les Sulphides') . . ."—From a theatrical paper. "But lovers of Chopin, I think, will admit that even 'Les Sulphides' cannot compare for sheer nervous beauty with 'Les Hydrochloriques,' in which Chopin has mingled ecstasy with the faintest soupçon of acidulated pessimism."—"Beachcomber," in the "Daily Express."

## Trade Notes

**GLASGOW CHEMISTS' EXHIBITION.**—Dubarry et Cie ask us to state that the company is exhibiting perfumes and toilet articles at the Chemists' Exhibition, to be held at St. Andrews Hall, Glasgow, from September 17 to 21.

**HYGIENIC FEEDERS.**—Thomas Swales, 20/24 Butts Court, and 89 Albion Street, Leeds, are offering in their advertisement a good line of hygienic feeder—a British bottle with teat, valve and brush in lined carton, at a special price.

**WINTER LINES** advertised in this issue by R. H. Allen & Co., manufacturing chemists, Sydenham, London, S.E.26, are Rosebalm for chapped hands, and Thermopede capsicum foot socks. Other forms of medicated socks are also referred to.

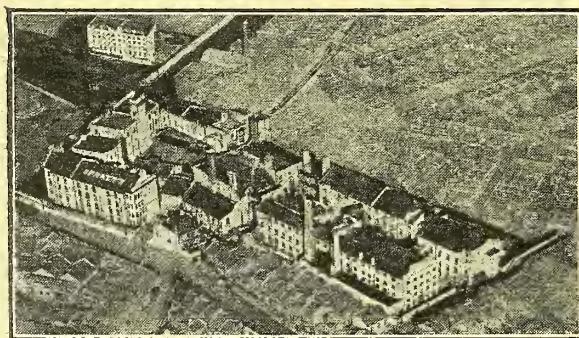
**"SPUN" OINTMENTS.**—Robert Blackie, Shen Works, Tower Bridge Road, London, S.E.1, show in their announcement in this number a number of styles in which "Spun" ointments are packed ready for sale. An illustrated catalogue is published, with details of these and other goods packed by the firm.

**MR. H. W. BRAUN,** 5 Farringdon Avenue, London, E.C.4, for some years London agent, has been appointed sole agent for Great Britain for Julius Grossmann, Hamburg, drug and chemical merchants, and also for the Sherwood Petroleum Co., Inc., Brooklyn, N.Y., manufacturers and refiners of petroleum jelly and liquid paraffin.

**"ASHES OF ROSES."**—A. Bourjois et Cie, Ltd., 66 Carter Lane, London, E.C.4, refer to the "Ashes of rose" folder sent to chemists. This is a most striking production in gold and colours, adapted for use as a window poster. The folder contains also a special bonus offer of "Ashes of roses" products in view of the national campaign which has been planned to make the public inquire at chemists for these goods.

**"CHESTNUTS."**—Arthur H. Cox & Co., Ltd., manufacturing chemists, Brighton, have sent out to chemists a large folded circular with the word "chestnuts" on the cover. The company ask us to state that any *C. & D.* subscriber who has not received a copy can have one sent on sending a postcard request. The circular deals with seasonable lines of packed goods.

**POTENTIAL CUSTOMERS.**—It is estimated that at least one customer in every four is the owner of a dog, which, undoubtedly, is as subject to minor ailments as a human being. In his own case the customer calls on the chemist for treatment, but for his dog he consults the veterinary surgeon. To enable chemists to cultivate this class of business, Spratt's Patent, Ltd., whose announcement appears elsewhere in this issue, have extended their range of dog remedies, packed them in boxes with attractive labels, and are prepared to help chemists to develop sales



VIEW OF WORKS

of these goods in a variety of ways. We have recently inspected several striking window posters and showcards designed for this purpose. A booklet, "Canine Ailments," dealing with symptoms and treatment of doggy diseases, will, according to order, be supplied free of charge and

over-printed with the chemist's name and address. For chemists who have their own ideas regarding advertising schemes, Messrs. Spratts are prepared to help wherever and as far as possible.

**INFANT SOOTHING FEEDER.**—John Dowell & Sons, Ltd., Globe Works, Chatsworth Road, Clapton, London, E.5, are advertising in this number an interesting novelty in infants' soothers. From the inspection of the soother it is obvious that a distinctly new line has been devised, and we think that it will take the public fancy so soon as mothers realise the uses. There is an illustration of the Dormel soothing feeder in the company's advertisement, and it may be explained that the centre is a glass rim suitably grooved for fitting to it on one side a rubber teat, and on the other side a rubber cap, forming in this way a chamber into which can be introduced honey or medicaments. The soother is placed in the infant's mouth and the attraction of the sweetness, combined with the soothing teat, ensures quietness within a short time. The teat and cap are readily removed by a lever movement. The Do-well soothing feeder is on the same lines, but a glass dome-end is used instead of the rubber cap. The point to bear in mind is that these articles are not ordinary "dummies," but a new class of infants' soother.

## Business Changes

Boots, Ltd., have taken over the premises at 170 High Street, Camden Town, London, N.W.1.

Mr. C. H. WRIGHT, chemist and druggist, has opened a business at 2 Trelawny Square, Flint.

Mr. W. CROFT, chemist and druggist, has taken over the business of Mr. R. Bushley, 110 High Street, Gloucester.

Mr. A. G. COPE, Ph.C., has taken over the old-established business of Mr. E. Fletcher, chemist and druggist, Parsonage Street, Dursley.

Mr. J. A. PEILE, chemist and druggist, has taken over the business of Miss E. Taylor, chemist and druggist, 80 Liverpool Road, Eccles.

Miss MARION A. BOWDEN, chemist and druggist, will shortly open a business at 85 Chester Road, Castle Northwich, Northwich. Miss Bowden was formerly on the staff of the Manchester School of Pharmacy.

## Information Department

### INFORMATION WANTED

T/59. "B.L." appliances	M/79. Ne Plus Ultra nasal douche
P/59. Bulb-end soother teats	W/319. Posne brand metasulphite of potash
R/255. "Clematis" brand gelatin	B/69. Purginettes
W/309. "Delysia" powder puffs	B/218. Pyramid antiseptic corn files
C/59. "Emstar" surgical hosiery	B/69. Rubber eye baths
S/109. Glass perfumery bottles in form of foxes and dogs	L/258. Sovereign drops for horses
A/59. Mutesco hair restorer	B/109. White's Sassafras soap
	B/69. White Star toilet rolls

### INFORMATION SUPPLIED

Barnaby's liver liniment. B/318	Packed stationery for chemists. H/258
Beiersdorf's plasters. G/109	Petrolatum. H/129
"Bijou" frozen Eau de Cologne. W/49	Pressure and electrical dry heat apparatus. T/89
Butterfly orchid perfume. B/119	Primrose brand cream of tar-tar. P/129
Cheramy perfumes. A/308	Satinella. B/119
Chlorinda disinfectant. B/79	Soft Spots arch supports. B/49
Crayon gyrol. A/79	Sterilisers. T/89
Dr. Van Vleck's pile cure. S/39	Sunbronze. S/308
Ectodyne. A/59	Tenaline. S/308
Embossed lithographic labels. S/109	"Velve-Cling" cream. M/129
Iodine medol. H/318	Vesta braces for stooping. H/3
Iodotan. B/79	Violet ray apparatus. H/119
Lactogen. C/308	Wallas' styptic colloid. W/308
Mascot cold cure. A/39	Wynter's foot salve. S/129
Morgan's pomade. S/119	Yatren casein. P/308
Novio toilet rolls. B/119	Zoot soap. P/19
Odentic palate brush. E/39	

## Observations and Reflections

By Xrayser II.

### The Ministry of Health Report,

so far as it tells against chemists, probably means no more than that there has been greater activity in prosecutions, and that, as regards prescriptions, the tests applied have been more strict, but in any case it is to be regretted that the average of offences is higher than it was in 1921. That the prosecutions for incorrect dispensing were often frivolous, and that in some cases convictions were unjust, only makes it the more necessary to use the utmost care to avoid them, and it is clear that we must aim at a higher standard of accuracy than we have hitherto, not unreasonably, been content with. If we cannot rise to the more serious demands made upon us our craft is in danger, and though there is a limit to possible accuracy it cannot be said that we always attain it. One aspect of the case which has not been sufficiently insisted upon by us is that if we are expected to aim at scientific accuracy we must be better paid for our work. It is unreasonable to expect A1 service for C3 pay. If the cost of ascertaining our shortcomings by analysis is as much as it is made to appear the cost of satisfying the analyst must be a good deal more than people realise. The new demands made upon us ought to be regarded as a reason for raising our prices.

### "The Triangular Struggle"

of the Government, the doctors, and the approved societies over the remuneration of the doctors under the National Health Insurance scheme is the subject of a long article by a special correspondent in the "Glasgow Herald." The writer explains very lucidly the position of the doctors and the societies and how the present dispute arose, but from beginning to end he has no mention of the chemists and their claim to consideration, and this, I fear, is typical of the general attitude with regard to us. The doctors, I understand, ask for a capitation fee of from 10s. 4d. to 10s. 9d., stabilised for five years; the societies put the figure at from 7s. to 8s.; the Government's figure has not yet been indicated, but it is taken for granted that it will be such as will avoid any special grant from the exchequer. Taking these facts in conjunction with the public indifference with regard to us, our prospect is not a very rosy one. The writer of the article thinks the doctors' position a strong one, but we may perhaps infer that he is a doctor himself. It would probably be best for us that the doctors' view should prevail over that of the societies: we are more or less in the same boat as they; but whichever prevails we shall in all likelihood suffer more than they from the penuriousness of the Government.

### The Drinking of Methylated Spirit

was said by a police official in evidence given at the Marlborough Street Court the other day to be on the increase in London, especially among the working classes; and it was alleged that bottles that have contained it are frequently picked up in Hyde Park. Hyde Park is not a place in which one would suppose that the working classes greatly congregate; probably they are represented in the policeman's mind by the loafers who sleep their time out there, and what he said is hardly evidence against them as a class. The increase in the habit is, I fear, a fact for all that, and it would seem that all the measures hitherto taken to stop it have failed. Among those that have been proposed but not tried, the most obvious, the lowering of the duty on potable spirits to a reasonable figure, if it is found at all, occupies the lowest place, and now that a taste for the methylated stuff has been acquired it might not be very effectual. I doubt whether the resolutions accepted by the Dundee Town Council would be much more so. Prosecution by the police would be the more likely of the two, but if the evil is as great as it is said to be inclusion in the Poisons Schedule would not be too drastic. That, however, would be beneficial to chemists, and is out of the question.

### "Veteran"

makes the question of Latin as a compulsory subject in the Preliminary examination the occasion of a large indictment. He appears to accuse not only our leaders in the Council but the whole body of pharmacists of "cheapening" pharmacy, for with the examination fees at their present figure he can hardly use the term in any but a metaphorical sense. In that sense the charge is true though superfluous, since to say "lowered and commercialised" is to say everything; having said that, "cheapening" goes without saying. "Veteran," however, exaggerates the effect of the abandonment of Latin on the cheapening process. It had an effect, but it was rather a symptom than a cause; it marked a lowering of tone on our part, the increase of the commercial over the professional spirit among us, or, at least, the substitution of technical efficiency for a more liberal view of education. No doubt it increased as well as marked this tendency, and the re-adoption of Latin might do something to check it. I fear, however, that we are but sharers in a general movement; it may be only an old man's delusion, the ideals of the much abused "Victorian age" were higher than those of the present day, but it is one I cannot shake off. I dare say "Veteran" will agree with me.

### "The Average Insured Person,"

says your correspondent, "Neglected," "stands in a certain awe of his doctor." No doubt he does, though, as "Neglected" goes on to say, there is a good deal of private grumbling against the doctors. One reason why I recommend the refusal of ambiguous prescriptions and the reference of the patient to the prescriber is that it would help to give vent to this "private" dissatisfaction, and to abate the awe in which the doctor is held by his patients. By our timid mode of dealing with these difficulties we countenance the divinity that doth hedge the doctor in the minds of his patients, and by virtually taking his sins upon ourselves as we do we earn the blame rather than the thanks of both doctor and patient. A bolder attitude would pay us better and would, as I said before, be the most direct and effectual way of remedying the evil. It is news to me that I am sometimes almost apologetic to the doctors, but I am glad to hear it, for it seems to show that in this (as in other matters, I hope) I have tried to give the devil his due. I will not, however, hold a candle to him.

### "Drugs Versus Common-sense"

is the title of an article in the "Glaxo Service Bulletin" for September, in which we are told as an evidence of the rational spirit now abroad that the time will come when the British Pharmacopœia will slip comfortably into the waistcoat pocket, the inference being that the use of medicine will virtually die out and our craft be reduced to a trade in toilet articles and other sundries. This is hardly borne out by the size of the new Pharmaceutical Codex, by the continual discovery of new remedies noted in your columns, by your pages of advertisements and price lists of drugs, or by any of the more obvious signs of the times. I venture, indeed, to say that there never was a time when medicine was in greater demand than now, or when its practitioners, including the "G.P.," whom the writer of the article declares to be "on the road to extinction," had a better prospect. Medicine will no doubt to a great extent change its character—it has already done so to a considerable extent—but though the form may change the function will never die until Prospero's vision of the dissolution of all things is realised. The very title of the article is due to a fallacy. There is common-sense in the use of drugs, but there is no antagonism between them.

**POSTAL ARRANGEMENTS WITH TURKEY.**—It is announced that, following the evacuation of Constantinople by Allied troops, the British Post Office in Turkey will be closed, and postal packets (including parcels) will be forwarded to that country through the Turkish Post Office.

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**A**N announcement of particular interest to you appears in this issue on page ix.

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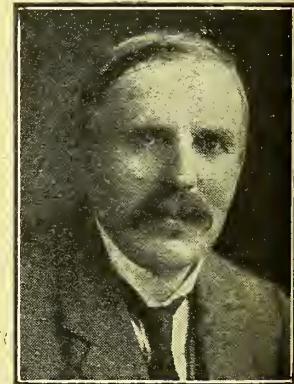
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**Editorial Articles****The Electrical Structure of Matter**

THE meetings of the British Association for the advancement of Science afford each year opportunity for discussion and exchange of ideas, so essential to the understanding and the acceptance of a doctrine among even its own acolytes. The Presidential address is far more important to the community at large in that it usually embodies an authoritative survey of the President's own subject couched in language understandable by all scientists, and not by specialists only. A subject of wider interest could not be imagined than the address given at Liverpool on September 12. The President, Sir Ernest Rutherford, F.R.S., in discoursing on "The Electrical Structure of Matter," deals with fundamentals in a manner readable and understandable. Science as a whole gains in that theories somewhat nebulous take on aspects more concrete. Though Sir Ernest is very guarded in his statements, he nevertheless presents a clear picture of atomic structure. In



SIR ERNEST RUTHERFORD, F.R.S.  
President of the British Association.

simplifying for our readers the chief points of address it is impossible to do full justice to the subtleties and many reservations in the address, and recourse, where possible, should be made to the original. Sir Ernest first points out that the last meeting at Liverpool in 1896 marked the beginning of the "heroic age of physical science," with the announcement of the discovery of *x*-rays and of Marconi's wireless transmission of signals by electric waves. The proof in 1897 of the independent existence of the electron as a mobile electrified unit was of extraordinary importance. It was soon seen that the electron must be a constituent of all the atoms of matter, and that optical spectra had their origins in the vibration of electrons. The whole conception of the atom was revolutionised by the study of radioactivity, these atomic explosions involving energies gigantic compared with those of any ordinary physical or chemical process. Then the methods devised to measure the magnitude of the fundamental unit of electricity (the charge on an electron) were an experimental achievement most notable even in an era of great advances. All scientific men are convinced that the small mass of the negative electron is to be associated with the energy of its electrical structure, so that the electron may be regarded as the disembodied atom of negative electricity. The hydrogen

atom is the lightest, and presumably the simplest, of all atoms. It is thus natural to assume that the hydrogen nucleus is the atom of positive electricity or positive electron (termed "proton"). Electrical theory shows that the mass of a given charge of electricity increases with concentration, and experimental evidence is not inconsistent with the hydrogen nucleus being actually much smaller than the (negative) electron. Though the greater mass of the positive atom of electricity (1,840 times the electron) may be explained in this way, present knowledge does not make it seem possible to push further the inquiry into the enigma why the two units of electricity differ so markedly. There is the strongest evidence that atoms of matter are built up of two electrical units, viz., the electron and the proton. It is probable that these are the fundamental and indivisible units from which the universe is formed. On the view that the mass of the atom is the sum of the electrical mass of the individual charged units comprising its structure there is no need to assume any other kind of mass exists. The conception of the nuclear atom arose from the study of the deviation of  $\alpha$ -particles in atomic collisions. There is no question of mechanical impact in these collisions of perfectly elastic spheres, only reaction between two powerful electric fields, the magnitude of which could only be obtained if the main charge of the atom were concentrated in a minute nucleus. Thus the heart of the atom is supposed to consist of a minute but massive nucleus carrying a positive charge of electricity and surrounded at a distance by the requisite number of electrons to form a neutral atom. Experiments allow fixation of upper limit to the dimensions of this nucleus, which in the case of a heavy atom like gold is less than one-thousandth of the radius of the complete atom. Such a type of nuclear atom possesses some very simple properties. The Moseley atomic number is of fundamental importance, as it shows conclusively that the properties of an atom are determined by its nuclear charge and not by its atomic weight. Once the salient features of the structure of atoms have been fixed and the number of electrons become known, then the further study of atomic structure falls naturally into two great divisions: (1) The arrangement of the outer electrons which controls the main physical and chemical properties of an element, and (2) the structure of the nucleus on which the mass and radioactivity of the atom depends. Sir Ernest has perforce to enter more debatable ground in dealing with the application of the quantum theory to the origin of spectra. Bohr's supposition is that the single electron of the hydrogen atom could move in a number of stable orbits and emits radiation only when transference occurs from one stable orbit to another of lower energy. The frequency  $v$  of the radiation is determined by the quantum relation  $E = h\nu$  ( $E$  being the energy difference and  $h$  Planck's universal constant). Under ordinary circumstances the electron of an hydrogen atom rotates close to the nucleus, but may be displaced on electrical or other excitation. In a radiating gas giving the complete hydrogen spectrum there will be many different kinds of hydrogen atom, in each of which the electron describes one of the possible orbits specified by the quantum theory. The application of this theory has thrown a flood of light on the relations and origins of spectra, and it has been possible to form a rough idea of the orbits of complicated systems of electrons in motion. Thus helium has two electrons moving in coupled orbits forming a definite (K) group common to all elements except the simpler hydrogen. The electrons of this K group retain their characteristics but move with increasing

speed and approach closer to the nucleus as the charge on the nucleus increases. Neon (atomic number 10) shows the L group of electrons consisting of two sub-groups with four electrons each and appearing in all heavier atoms. When the L group is completed a new and more complicated M group begins to form outside it, similar processes going on until uranium (of highest atomic number) is reached. Sir Ernest visualises the conception of the atom of uranium as follows:—

At the centre of the atom is a minute nucleus surrounded by a swirling group of 92 electrons, all in motion in definite orbits, and occupying but by no means filling a volume very large compared with that of the nucleus. Some of the electrons describe nearly circular orbits round the nucleus; others, orbits of a more elliptical shape whose axes rotate rapidly round the nucleus. The motion of the electrons in the different groups is not necessarily confined to a definite region of the atom, but the electrons of one group may penetrate deeply into the region mainly occupied by another group, thus giving a type of inter-connection or coupling between the various groups. The maximum speed of any electron depends on the closeness of the approach to the nucleus, but the outermost electron will have a minimum speed of more than 1,000 kilometres per second, while the innermost K electrons have an average speed of more than 150,000 kilometres per second, or half the speed of light.

The theory of Bohr, like all living theories, correlates a multitude of isolated facts and predicts new relations such as the properties of missing element number 72 in fact giving incentive leading to its discovery. The theory of chemical combination by sharing electrons is only lightly touched upon. As regards the structure of the nucleus of the atom, Sir Ernest recalled his own rash statement of ten years ago that it was a problem that might be left to the next generation. He does not state, however, that he himself has delved more deeply into its intricacies than any other living individual. It is his famous experiments which suggest that the hydrogen nucleus or proton must be one of its fundamental units and the helium is a secondary building which is composed of four protons and two electrons in very close union. The nuclear theory offers a simple interpretation of the relations between isotopic elements, isotopes corresponding to atoms of the same nuclear charge but of different nuclear mass. The atomic mass of most isotopes is a whole number in terms of oxygen, 16, and again indicates that nuclei are built up of protons of mass nearly one and of electrons. Very little, if any, information is available as regards the distribution of these units in the atom or on the nature of the forces which hold them in equilibrium. The nucleus of a heavy atom is undoubtedly a complicated system—in a sense, a world of its own uninfluenced by physical and chemical agencies ordinarily at our command. It seems certain that the density of a nucleus (or mass compared with volume) is many billion times that of our heaviest element, yet we should expect a magnified picture to show a discontinuous structure occupied but not filled by the minute building units, protons and electrons, in ceaseless rapid motion controlled by their mutual forces. Sir Ernest in a way discounts the popular projects of atomic disintegrations providing practicable sources of energy. He inclines to the view that the stores of energy in radioactive elements are the sole survivals on earth of atoms still in "excited" state owing to their very slow rate of transformation. Finally mention is made of the speculative arguments that stellar energy is derived by loss of mass in the synthesis of helium from hydrogen. Calculation indicates energy equal to that from combustion of 8,000 tons of carbon would be released in the formation of

one pound of helium. Nevertheless Sir Ernest pays tribute to the bold ideas of to-day as illustrated by the Quantum Theory and the Theory of Relativity. The present period may almost be termed the "Renaissance of Physics." No one would have anticipated that the general relationship between the elements is so simple as it is now believed to be. Experiment without imagination or imagination without experiment can accomplish little; for effective progress a happy blend of these two powers is necessary. An interesting feature of the delivery of the address was that it was broadcast by wireless telephony to all stations in Great Britain of the British Broadcasting Co., so that it can be safely stated that never before in the history of the British Association have so many people listened to the President's address at the opening of the meeting.

### Confidence in Sugar Reviving

As has been evident within the last week or two, the outlook in sugar is improving. Prices last week were moved up all round, and the demand for actual sugar has been increasing. There is every indication of renewed stability and confidence reviving on both sides of the Atlantic, while purchases of Java sugar have been resumed on a large scale from India after a long period of interruption. Invisible stocks in India were allowed to fall to a low point owing to the slump in the last few months, and the pressure on spot sugar there has caused premiums to be paid against c.i.f. terms for sugar to arrive. In our issue of June 23 (pp. 877-878), commenting on the setback in sugar, we expressed the opinion that the Cuban crop shortage would not be less than 300,000 tons below the original estimates of about four million tons, and according to the final estimates received from Cuba the yield is 3,603,000 tons, which shows a deficit of little under 400,000 tons compared with the previous crop. It is this deficit which is now again exercising the minds of experts. The turn came in sugar a fortnight or so ago, when shrewd observers began to recognise that the protracted depression had been overdone under the severely disturbed condition of the American market. The reaction from the depression in prices for near sugar, which was reduced by about 12s. to 15s. per cwt. from the peak of the extraordinary rise witnessed in the spring, was delayed especially on our market last month chiefly by the unexpectedly heavy pressure of Java sugar. The surplus of Java sugar held in speculative hands, that had been acquired at inflated prices, has now been disposed of. British refiners bought several cargoes, while very large quantities were taken of this sugar for Baltic and other northern ports, as well as France. Incidentally it may be mentioned that large quantities of sugar, estimated at about 100,000 tons, were destroyed by the earthquake in Japan, so that new supplies there will probably be urgently wanted. The latest American advices regarding the development of consuming demand are optimistic, and there has been a definite tendency to a rallying movement in America, where the trade had temporarily lost sight of the fact that there is now only a little over half a million tons of Cuban sugar to be shipped, and about four months must still elapse before a start can be made with the new crop. This Cuban surplus, which will presumably be one of the deciding factors in the near future, is unlikely to be pressed on the world's markets, as it will probably all be urgently required by refiners, particularly in the United States.

The liquidation of unwieldy speculative engagements across the Atlantic came to an end recently, and stocks of refined sugar there are said to be rapidly becoming utilised. American refiners will thus have to buy Cuban sugar on a larger scale under the more active trade demand that is coming. The extent of the slump experienced within the summer months and the rally which ensued just lately can be gathered from the tabulated quotations given hereunder:—

	Highest in May	Lowest in August	Last week's highest
Tate & Lyle's cubes, per cwt. ..	70/9 to 71/9	57/3 to 58/-	58/3 to 59/-
American granulated, spot ..	65/6	53/-	54/6
Cuban raw sugar, c.i.f. prompt ..	32/-	20/-	21/-
White sugar futures, Ditto Dec. ..	37/-	22/-	23/6
Ditto March ..	29/7	21/-	23/-
	—	21/3	23/6

Whereas two months ago distant sugar was still at a considerable discount compared with prompt delivery (in sugar futures), forward positions have lately improved appreciably, the commencing months of next year realising as much as early delivery, but it is not unlikely that a notable premium will be established on the latter in the near future. The following returns represent statistical movements in this country from January to July inclusive this year with comparisons for the previous two years:—

	In tons	1923	1922	1921
U.K. Imports, Jan.-July ..	967,630	1,212,712	822,369	
U.K. Consumption, Jan.-July ..	852,853	938,135	814,837	
U.K. Stocks, July 31 ..	306,900	344,050	342,000	

While our imports of all sugars for the seven months indicate a material falling off as against 1922, deliveries into consumption over the same period denote a decrease of about 85,000 tons, and the stocks in bond were reduced some 37,000 tons to 306,900 tons by the end of July. Consumption was affected by the adverse weather conditions over the spring and the earlier part of the summer, but some allowance should be made for the fact that the deliveries into trade channels were checked by the lack of confidence following the slump in prices. The aspect of the market having been changed, the more normal demand and the replenishment of trade stocks should tend to swell deliveries for the current month. American authorities contend that the position is intrinsically sound and that current prices are relatively low. Indications, at any rate, are now in the direction of firmer markets. The Continental beet crops are fairly promising although belated, and their yield on the whole is hardly likely to prove sufficient to permit of much sugar being exported to this country, while there has been a decrease in the German acreage. Forward offers of either raw or refined sugar from practically all sources are now being made more sparingly. Reports from Java are strong, while it is rumoured that sugar is being bought there by a syndicate.

### Army Pharmacists in Yugo-Slavia

THE complete reorganisation of the Yugo-Slav army is about to be undertaken in accordance with the provisions of the new military service law, and includes the creation of a military pharmaceutical corps, which, it is confidently asserted, will be unrivalled by any other modern country. A military pharmacist with the rank of a colonel will be attached to each army corps, and will be in charge of its entire pharmaceutical service. Each army corps will possess its own dépôt of medicines and surgical dressings, a laboratory for the manufacture of pharmaceutical preparations, dressings, etc., and

where analytical work will be undertaken, as well as a corps central military pharmacy, each of which will be in charge of a pharmacist-major. The various military pharmacies attached to regiments or other units will be "commanded" by a pharmacist-captain. The pharmaceutical service in the new-born Yugo-Slav navy will be directed by a pharmacist-major, and a pharmacist-lieutenant-colonel will be attached to the veterinary section of the War Ministry. In addition to the army corps depôts, there will be a central establishment, with pharmaceutical laboratories, in charge of military pharmacists, where reserve stocks of medicines and dressings for use in war will be kept. The actual professional duties in the various military pharmacies, laboratories and depôts will be performed by pharmacist-lieutenants, who will rank as first-lieutenants, and, after four years' service, will be promoted to the rank of pharmacist-captains of the second class, then, after another three years, will become pharmacist-captains of the first class. To attain the staff rank of a pharmacist-major, a pharmacist-captain of the first class with three years' service in that rank has to pass an examination in military laws, as far as they affect pharmacists, pharmacognosy, hygiene, administrative subjects, etc. A period of four years' service is fixed for each successive step—pharmacist-major, pharmacist-lieutenant-colonel, and pharmacist-colonel, the highest rank in the new Yugo-Slav military pharmaceutical hierarchy. From the above provisions it will be seen that a military pharmacist will reach the rank of pharmacist-colonel after eighteen years' service, and will retire after holding that rank for a period of four years, making a total of twenty-two years with the colours. The staff of the new military pharmaceutical corps will consist of six pharmacist-colonels, ten pharmacist-lieutenant-colonels, and eighteen pharmacist-majors; hitherto the highest rank was that of pharmacist-major, of which there are at present eight. Every effort has been made to render service in the pharmaceutical corps of the army as attractive as possible, offering high pay and rapid promotion as inducements, in order to secure the best type of men. The method of remuneration, which is based on the recognition of the dual rôle of the military pharmacist as a professional man and an officer, is an interesting innovation, which is significant, inasmuch as it denotes an appreciation of the pharmacist's special duties and responsibilities, and in this respect it is permissible to hope that the Yugo-Slav example will be followed in other countries. In addition to professional salary as pharmacists, military pharmacists will receive pay as officers, as well as supplementary grants, taking the form of dwelling allowance, equipment allowance, and an indemnity to cover the high cost of living; it is interesting to note that the extra allowances include an annual grant of 27 cubic metres of wood for heating, for all ranks. Thus, the initial professional salary of a pharmacist-lieutenant is fixed at 3,600 dinars per annum; of a pharmacist-major at 7,800 dinars (nominally £144 and £312); while the military pay of a first-lieutenant amounts to 4,200 dinars, of a major to 9,600 dinars (nominally £168 and £384). It will be seen that the military pharmacist in Yugo-Slavia receives not only a salary as remuneration for his professional services, equaling the average salary paid to assistants in civil life, but also the military pay attached to his rank as an army officer. Inclusive of all allowances, the total annual income of a Yugo-Slav military pharmacist will range from 28,800 dinars for a pharmacist-lieutenant, to 55,500 dinars for a pharmacist-colonel.

**MEXICAN CANDELILLA WAX.**—Now that the uses of candelilla wax have become more widely known, and with the lower price prevailing, there has been, for some months past, a good market from Mexico. During the first quarter of the present year a record volume of candelilla was shipped from Nuevo Laredo to the United States, totalling more than 80,000 lb., and representing a value of over \$15,000, which was greatly in excess of the imports since 1918. Although shipments have gone to the United States, the fact that they have been consigned to commission houses in New York suggests the probability that they are ultimately destined for Europe.

## Summer Outings

### Lancaster Chemists' Outing

MEMBERS of the Lancaster Pharmacists' Association, together with friends, to the number of thirty, enjoyed a motor-coach outing in Lunesdale and the Pennine border on August 29. At Ingleton a halt was made at the Ingleborough Hotel for "high tea." The journey was completed by way of Kirkby Lonsdale, Farleton Knott, Burton, and Carnforth, making a circular run through some of the brightest scenery in the North Lancashire area.

### North Stafford Chemists' Motor-drive

THE annual outing of the North Staffordshire Chemists' Association took place recently, when a party numbering twenty-seven journeyed by charabanc to Hawkstone Park. Tea was served at the Bear Hotel, Hodnet, followed by a short musical programme, after which the



President (Mr. Kemp), congratulating the party on the enjoyable weather they had experienced, proposed a vote of thanks to the Hon. Secretary, Mr. Howson, for the excellent arrangements he had made, and also to those who had contributed to the musical programme.

### Social Gathering at Chesterfield

THE Chesterfield and Mansfield Branch of the Pharmaceutical Society held a social gathering of over fifty members and lady friends at Hardwick Hall on September 5. A cricket match, Chesterfield v. Mansfield, was arranged. Unfortunately the pleasure was marred towards the close, when the captain of the Mansfield team, Mr. G. W. Briggs, of Sutton-in-Ashfield, in attempting a difficult catch, fell and twisted his ankle. After receiving medical attention, he was sent home by motor. Mansfield was dismissed for 13 runs, and Chesterfield, on going in, easily passed the Mansfield total without losing a wicket. A number of the ladies were shown over Hardwick Hall, under the guidance of Mr. J. A. Pegg, the President of the Branch, while other members took part in a game of bowls. Tea was followed by a musical programme given jointly by the members of the two sections of the branch.

**JAPANESE CAMPHOR AND CELLULOID INDUSTRY.**—Following orders received earlier in the year from Europe and the United States, it is reported that the camphor market in Japan has begun to show signs of a revival. The celluloid industry has also improved since last autumn, and camphor manufacturers in Formosa and Japan proper are now supplying their output to factories in Tokyo, Osaka and other districts. Since 1916, when a record production of 6,517,232 kin of crude camphor and 11,010,059 kin of camphor oil was reached, the quantity manufactured has shown a gradual decrease, and in 1921 it fell to 2,535,407 and 7,224,600 kin respectively. Exports have naturally dropped in relation to the decreased output, and in 1921 they amounted to 982,700 kin, as against 1,074,000 kin in 1920 and 6,104,200 kin in 1916.

## Confectioners' Exhibition

AMONG the exhibits at the twenty-seventh Confectioners', Bakers' and Allied Traders' Exhibition, which is being held at the Agricultural Hall, Islington, London, N., from September 8 to 14, are several of interest to chemists, essences, bottles, malt extract and cream of tartar and its substitutes being well represented. The names of many of the exhibitors are well known to pharmacists in a connection other than confectionery, and in the following paragraphs we summarise our impressions of such stands:

**BLACKWELL, HAYES & CO., LTD.**, specialise in colours and flavourings, while the two combined are supplied under the name of Flavocols. After drawing our attention to their cream powder, a substitute for cream of tartar, their representative mentioned that they are advantageously placed to supply concentrated essences packed for retail, and would be pleased to hear from chemists.

**THE BRITISH DIAMALT CO. (H. A. & D. Taylor, Ltd.)** are showing extract of malt in liquid and powder form for use by bakers, but remind us that their pharmaceutical product cannot be surpassed for reliability in high diastatic power, it being carefully manufactured from the best barley only.

**THE CELLOPHANE CO.** are continually finding new uses for their product. This can now be supplied in "shavings," in which form it will be greatly appreciated by window-dressers and others interested in displaying articles attractively. A thicker variety of Cellophane is also available, and is particularly suitable for use instead of cartons.

**MR. E. DUNCAN DORING**, who occupies two stands, has devoted one to novelties, such as Zeus window-tapping figures and advertising machines. The latter has a figure which picks up the announcement to be displayed and after allowing sufficient time for the onlooker to read returns it to a box from which it came. At the other stand is an excellent display of glassware, comprising white flint lozenge jars, bottles, sample tubes and similar articles.

**DUDELEY & CO.**, judged by the variety of goods displayed at their stands, should be able to meet the wishes of the most exacting in regard to shop fittings, advertising novelties, window-dressing papers and similar articles.

**THE FORGROVE MACHINERY CO., LTD.**, although their exhibit is confined to caramel wrapping machines, will be pleased to give information regarding the apparatus which they manufacture for wrapping soap, pills, tablets and other lines of interest to the drug trade.

**THE GRAESSER-MONSANTO CHEMICAL WORKS, LTD.**, whose exhibit is restricted to vanillin, have displayed this in such a manner (a large star on a blue ground) that it cannot fail to attract, while some of its several advantages over vanilla pods are clearly depicted on a card.

**IMEX, LTD.**, are showing, among other lines, some excellent samples of bicarbonate of soda and cream of tartar (99.83 per cent.). The latter is manufactured by the company in France and Algiers, and an analyst's certificate which was shown us during our visit to the stand indicated that it was of first-rate quality, with a complete absence of arsenic.

**JULES LANG & SON** have put on the market a glass jar, the Absorbique, the stopper of which is also a desiccator, as, instead of being of solid glass, it is hollowed out, and a desiccating pad, resembling a piece of grey cardboard, inserted. While sweetmeats were being used to demonstrate the effectiveness of the invention, the idea is, of course, capable of much wider application. The remainder of the exhibit included glass soap bowls, bottles, pomade pots, and similar articles.

**J. W. LIGHTBOWN & SONS** tell us that the sales of "Gripps" first-aid pastilles are increasing each year. The pastilles are a blend of menthol, eucalyptus and liquorice, and are sold by weight or in tins of a suitable size and shape for the pocket. The firm's London agents are Thomas Christy & Co., Old Swan Lane, E.C.

**MANSELL, HUNT, CATTY & CO., LTD.**, have devoted their stand chiefly to the display of lines appropriate to the confectionery trade, but have not forgotten that the

chemist requires such things as bottle caps, seals, cartons and demy.

**THE NATIONAL CASH REGISTER CO., LTD.**, are showing a range of registers the use of which, in conjunction with the National Credit File, provides, it is claimed, the most economical method of handling credit business. All models are obtainable in oak or mahogany finish.

**B. L. & N. PHILLIPS, LTD.**, have arranged an exhibit which cannot fail to attract attention to their Solvèntem, a non-poisonous mineral for the destruction of cockroaches, ants, etc., and Ready Rat Relief, a virus that the chemist does not keep in stock, but obtains by return of post, and is this sure of it being fully active.

**VENESTA, LTD.**, inform us that they have reintroduced the plywood barrels with the metal rim which have been discontinued since the Silvertown explosion. The variety of cases, for which strength and lightness are but two of the advantages claimed for them, bear out the company's contention that "there is a Venesta case for every packing problem."

**WAXED PAPERS, LTD.**, as the name implies, are able to supply waxed papers, both plain and printed, specially manufactured for use on automatic wrapping or twisting machinery. Aluminium foil is another line in which the company does an extensive business.

## Note on Citronella Oil

By Ernest J. Parry

SOME years ago a number of shipments of Ceylon citronella oil arrived in this country containing alcohol as an adulterant. This was promptly discovered and as quickly ceased. A recrudescence of this form of sophistication has now occurred, and a considerable number of shipments has, during the past few weeks, arrived containing about 6 per cent. to 8 per cent. of alcohol (calculated as absolute alcohol), and has naturally attracted the attention of the Customs authorities. This form of adulteration is far more serious than its quantitative aspect would at first suggest. There can be no doubt that it has had its origin in that most regrettable test known as "Schimmel's test." This test, long discredited on the English market from the point of view of everyone interested in the quality rather than in the easy commerce of citronella oil, pointed the way to the wily native still further to adulterate an already adulterated article. The addition of a little alcohol was obviously the means of adding to the pure citronella oil a little more of the usual adulterant, so that the oil would still pass the usual indefinite so-called "Schimmel's test." So long as this absurd standard is retained on contract forms so long will adulteration continue, which will cause gross injustice to interested parties. From the analytical point of view the question of the true valuation of oil is, of course, the only question that matters. One has to remember that the usual method for the valuation of this important essential oil is the acetylation method for the determination of the acetylisable constituents present in the oil. But as this method depends upon the preliminary acetylation of the oil, which is then washed with water, so that the actual determination is made upon a weighed quantity of the so-washed oil, from which the ethyl acetate has been practically entirely removed, the result obtained appears to be the true result, although it is, in fact, the percentage of the acetylisable constituents contained in the original oil, *minus* the adulterating alcohol. It is, therefore, necessary first to determine the amount of alcohol present in the sample, and then make the necessary allowance in calculating the total geraniol present. As a rapid method for the detection of alcohol as an adulterant of this oil, the determination of the refractive index of the oil, and of that of the oil washed with water, is the easiest. It will be found that the adulterated samples now arriving have a refractive index of about 1.4720 to 1.4730, while the washed samples have a refractive index of 1.4790 to 1.4820. The exact determination of the alcohol is, of course, only possible by the usual quantitative methods for the determination of alcohol.

## Sicilian Essential Oils

GOVANNI PELLINI has contributed to the last issue of the "Annali di Chimica Applicata" a lengthy monograph on the medicinal and perfume plants of Sicily. A good deal of his work is quite new to English students, and many interesting results are recorded. The ground covered is fairly wide, so that in the present note only the most salient features can be reproduced. Of considerable interest is the examination of the oil of lavender (*Lavandula vera*), as in ester value it seems to approximate to English rather than to French oil. Three samples are reported on: (1) Distilled at the commencement of flowering; (2) at full flowering; (3) at the end of flowering. These samples had the following characters:—

	1	2	3
Specific gravity ..	0·891	0·889	0·889
Optical rotation ..	-4·5°	-5·1°	-4·8°
Refractive index ..	1·4674	1·4651	1·4636
Acid number ..	0·78	1·16	0·70
Esters (p.c.) ..	6·5	7·2	8·0
Total alcohols (p.c.) ..	36·5	37·3	40·7
Free alcohols (p.c.) ..	31·4	31·6	34·4

Two samples of oil distilled from *Rosmarinus officinalis* were examined. Of these the first was distilled from plants gathered in February and March, and the second from plants gathered in August. They had the following characters:—

	1	2
Specific gravity ..	0·921	0·918
Optical rotation ..	+5·6°	+9°
Refractive index ..	1·4659	1·4660
Esters (p.c.) ..	5·25	3·75
Free alcohols (p.c.) ..	8·64	6·44
Total alcohols (p.c.) ..	12·77	9·33

The oil has a powerful camphoraceous odour. Samples of the oil distilled from *Mentha pulegium* (*hirsuto*) showed no particular differences from those already reported upon in essential oil literature. A typical sample distilled in 1921 had the following characters:—

	..	..	..	0·920
Specific gravity ..	..	..	..	+10·6°
Optical rotation ..	..	..	..	1·4657 at 25°
Refractive index ..	..	..	..	
Esters ..	..	..	..	5·36 p.e.
Free alcohols ..	..	..	..	5·02 p.e.
Total alcohols ..	..	..	..	7·67 p.e.

The oils from *Thymus capitatus* and *Origanum vivens* were examined, and found to have the following characters:—

	T. capitatus	O. vivens
Specific gravity ..	0·950	0·924—0·932
Optical rotation ..	-0·5°	-1·5° to -1·6°
Refractive index ..	1·5048	1·4950 to 1·5002

Phenols (p.c.) .. 67 50

*Satureja nepeta* is a plant quite common all over Sicily, and the essential oil distilled therefrom has been reported upon several times. A typical Sicilian oil, reported on by Dorne Bertrand Fils, had a specific gravity 0·925, optical rotation +17·5°, and contained 47 per cent. of ketones. Pellini has observed optical rotations up to +113°, and a ketone content up to 66 per cent. This oil, distilled from plants grown in Sicily, appears to have a very variable character. The essential oil of *Artemisia arborescens* is of some interest. Samples distilled from plants grown in Sicily, Sardinia and Calabria had the following characters:—

	Sicily	Sardinia	Calabria
Specific gravity ..	0·958	0·946	0·943
Esters (p.c.) ..	4·17	6·82	—
Total alcohols (p.c.) ..	7·92	13·94	13·08

The oil from the fruit of *Foeniculum piperitum* had the following characters:—

	..	..	0·956
Specific gravity ..	..	..	+10·4°
Optical rotation ..	..	..	1·5092 at 21°
Refractive index ..	..	..	
Congealing point ..	..	..	-6°
Esters ..	..	..	0·5 p.e.
Total alcohols ..	..	..	1·0 p.e.

The oil from the leaves of *Eucalyptus globulus* possessed characters which were normal for this oil as distilled in other parts of the world. The optical rotation was somewhat high—namely, +9·35°. The eucalyptol value

was 51 per cent. Sicilian rue oil is quite similar in character to Algerian rue oil, having a specific gravity 0·834 to 0·840, optical rotation -4° to -5·4°, refractive index 1·4257 to 1·4299 at 26°, and congealing at -3° to -9°. The oil distilled from the leaves of *Pelargonium capitatum* has already been reported upon as Sicilian geranium oil by Umney and Bennett. The ester value of samples now examined varied between 30 and 40 per cent., and the total alcohols between 47 and 60 per cent. There is no doubt that there is considerable activity in the research on essential oil possibilities in Italy, and that this country will be a producer of numerous essential oils in the near future.

## Condensed Milk Regulations

Coming into operation on October 1, 1923

ACCORDING to the new Regulations, on every tin of condensed milk should be stated the quantity of milk to which it is equivalent, and also whether it is full cream, skimmed, sweetened or unsweetened. In the case of "skimmed unsweetened" and "skimmed sweetened" milk the words "unfit for babies" should appear on the label. The equivalent of milk should be expressed as pints, eighths, quarters or halves. By the word milk is understood a product which contains not less than 12·4 per cent. of milk solids, including not less than 3·6 per cent. of milk fat, while skimmed milk should contain not less than 9 per cent. of milk solids other than milk fat.

The above-mentioned declaration should be printed in dark block type upon a light-coloured ground with a surrounding line, and no other matter shall be printed within such surrounding line. The type to be used for the purpose should not be less than one-eighth of an inch in height, but if the gross weight of the tin or receptacle does not exceed twelve ounces one-sixteenth of an inch type can be used. The label must bear in addition the name and address of the manufacturer or merchant in the United Kingdom for whom it is manufactured. On the label placed on any tin containing condensed milk there must not appear any comment on the equivalence of milk or on the words "machine skimmed," "skimmed," or "unfit for babies," or any instruction as to dilution unless the fluid produced in accordance with such instructions is milk of standard composition as above defined, or if such instructions clearly specify that the resulting fluid has not an equivalent composition of milk or skimmed milk as the case may be. All condensed milk shall contain no less than the figures specified below (the percentage to be calculated by weight):—

	Milk fat.	Total milk solids.
	Per cent.	Per cent.
Full cream, unsweetened ..	... 9	31
Full cream, sweetened ..	... 9	31
Skimmed milk, unsweetened ..	... —	20
Skimmed milk, sweetened ..	... —	26

Wherever the word "milk" appears on the label of condensed skimmed milk as the description or parts of the description of the contents it shall be immediately preceded or followed by the word "machine-skimmed" or "skimmed," as the case may require. By "condensed milk" is understood milk or skimmed milk which has been condensed by the removal of part of its water, whether with or without the addition of sugar, and includes the article commonly known as "evaporated milk," but does not include the article commonly known as "dried milk" or "milk powder." Skimmed milk includes both separated and machine-skimmed milk. The penalty for non-compliance with this Act is a fine not exceeding £100, and in case of a continuation of offence a further penalty not exceeding £50 for every day during which the offence continues. It is of interest to notice that the division of the sample into three parts by the inspector for the purpose of analysis will render it impossible to check the total milk content, while, if the whole tin is sent to the analyst, the analysis of the sample could not be used for the purpose of proceeding for a breach of the Regulation should then the analysis show a deficiency in the milk-fat or total milk solids.

## Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1923, p. 289.

(From "The Trade-marks Journal," July 25, 1923.)

- "FIDE ET LABORE" on scroll under shield and stag's head; for medicinal chemicals (3). By C. Gadd & Son, 19 Elmhurst Mansions, Edgeley Road, Clapham, London, S.W.4. 436,425.
- "SELSUS"; for all goods (3). By J. Ratcliffe & Sons, Ltd., Middle Hillgate Tallow Works, Stockport. 436,794.
- "PROSELDIS"; for medicinal chemicals (3). By H. Freese, Ltd., 59 Bermondsey Street, London, S.E.1. 437,599.
- "BONNIE" over semi-circular device of man; for medicinal chemicals (3). By L. H. Bonnard, 10 Kent Gardens, Ealing, London, W.13. 437,664.
- "OVALTINE"; for medicinal chemicals (3). By A. Wander, Ltd., 45 Cowcross Street, London, E.C.1. 437,651. (Associated.)
- "GENASPERN," "GENASPRIN," and "GENATOSPRIN"; for medicinal chemicals (3). By Genatosan, Ltd., 43 Regent Street, Loughborough, Leicestershire. 437,683/684/685/686. (Associated.)
- "CORAMINE"; for a pharmaceutical preparation (3). By Society of Chemical Industry in Basle, 141 Klybeckstrasse, Basle, Switzerland. 437,910.
- "THE HEMSTONE"; for a medicine for rheumatism (3). By A. Y. Spear, 121 High Street, Brentford. 437,965.
- "SPLASHLET" for soda water (44). By The Home Brewery Co., Ltd., 34 Milton Street, Nottingham. 436,669.
- "SUNLEA"; for mineral waters, etc. (44). By Armour & Co., Ltd., Queen's House, Kingsway, London, W.C.2. 436,865. (Associated.)
- "PHOS-EAU"; for mineral waters, etc. (44). By Camwal, Ltd., 112 Pembroke Street, Caledonian Road, London, N.1. 436,998.
- "SEMISPLIT CITODA" ("Semisplit" - disclaimed); "BABY CITODA" ("Baby" - disclaimed); for mineral waters, etc. (44). By Jewsbury & Brown, Ltd., 7 Ardwick Green North, Manchester. 437,816/817. (Associated.)
- "WI-TA"; for all goods (47 and 48). By W. Taggart, 78? Crumlin Road, Belfast. 438,019/020. (Associated.)
- "SENOORA" with device of head of Spanish lady in oval frame ("Senora" - disclaimed); for toilet soap (48). By R. Wheen & Sons, Ltd., Deptford Creek, London, S.E.8. 431,733.
- "BABS" under picture of two babies in circle ("Babs" - disclaimed); for perfumery, etc. (48). By Vinolia Co., Ltd., Bebington, nr. Birkenhead. 436,630.
- "GLINTEEL"; for perfumery, etc. (48). By Wiggleworth, Ltd., Peel Mills, Church Street, Westhoughton, Lancs. 437,129.
- "SAMOVAR" under picture of same; for perfumery, etc. (48). By Hodgson & Simpson, Ltd., 17 Highfield Street, Liverpool. 437,681. (Associated.)

(From "The Trade-marks Journal," August 1, 1923.)

- "BOSTOCK'S INDISPENSABLE ALL-ROUND FERTILISERS" on square label, with device of globe ("All Round," "Indispensable" and "Bostock's" - disclaimed); for fertilisers (2). By H. S. Bostock, 55 Nantwich Road, Crewe. 435,934.
- \*EP-PROL-V" ("V" - disclaimed); for veterinary preparations (2). By The D. & S. Laboratories, 12 Barnton Terrace, Edinburgh. 436,903. (Associated.)
- "CONQUEST"; for disinfectant soap (2) and for medicated soap (3). By W. Gossage & Sons, Ltd., Widnes, Lancashire. 437,124/253. (Associated.)
- "VERGOTININE" on label device, including horse's head in circle; for a veterinary medicine (2). By A. Velpy Fils, 60 Rue du Vieux-Pont-de-Sèvres, Billancourt, France. 436,380.
- "TURVIG"; for medicines for pigeons and poultry (2). By T. Uttley, 119 Eastbourne Road, Southport. 437,264.
- "FLYOSAN"; for chemicals (2). By Colonial Chemical Corporation, 994 River Road, Reading, Pennsylvania, U.S.A. 437,682.
- "NEW PIN"; for disinfectant soap (2) and for medicated soap (3). By The British Soap Co., Ltd., 29 Great St. Helen's, London, E.C.3. 437,949/950. (Associated.)
- "RHEURID"; for medicines (3). By A. W. Packe, 11 Midland Road, Hyde Park, Leeds. 437,877.
- "GARDIAN"; for salves (3). By T. Parker, 9 Wilmer Road, Heaton, Bradford. 437,953.
- "GRAESANTO"; for all goods (4) and (42). By The Graesser-Monsanto Chemical Works, Ltd., Cefn, Ruabon, N. Wales. 437,102/103. (Associated.)

- "WILLIAMS' HOLDER TOP"; for shaving soap (48). By J. B. Williams Co., 71 Southampton Row, London, W.C.1. 428,290.
  - "GLORADIA"; for perfumery, etc. (48). By J. P. Dalzell, 3 Avenue Road, High Ground, Bangalore, India. 433,386.
  - "WILTHOM"; for perfumery, etc. (48). By Wilkie & Soames, Ltd., Tunnel Avenue, East Greenwich, S.E.10. 435,690. (Associated.)
  - "KALODERMA, F. WOLFF & SOHN" with conventional leaf device; for perfumery, etc. (48). By F. Wolff & Sohn, Durlacher Allée 31, Karlsruhe, Baden, Germany. 436,050. (Associated.)
  - "ZENOBIA EAU DE COLOGNE" on label device, including ship; for eau de Cologne made in Great Britain (48). By Zenobia, Ltd., Woodgate, Loughborough, Leicestershire. 436,754. (Associated.)
  - "COMPAX"; for shaving creams, soaps, and powders (48). By J. A. D. Watt, 17 Waterloo Place, London, S.W.1. 436,883. (Associated.)
  - "SNAPS"; for shampoo powders (48). By The Ilex Supply Co., Ltd., 252B Gray's Inn Road, London, W.C.1. 437,359.
  - "DELIRIA"; for perfumery, etc. (48). By Breidenbach & Co., 48 Greek Street, Soho Square, London, W.1. 438,440.
- (From "The Trade Marks Journal," August 8, 1923.)
- "RAPIDASE"; for chemicals (1). By Société Rapidase, 1 Rue des Comtesses, Seclin, France. 436,297.
  - "NEWGLASS SUPER CONCENTRATED" over device of egg and egg-timer ("Newglass" disclaimed); for chemicals (2). By Tomlinson & Hayward, Ltd., 51 Newland, Lincoln. 435,220.
  - "KANIK"; for sanitary chemicals (2). By W. T. Prust, 161 Chichester Road, Portsmouth, and J. H. C. Gosling, 25 Haslemere Road, Southsea. 435,593.
  - "SANAFIN"; for disinfectants and preservatives (2). By E. S. Spencer, 7 and 8 Idol Lane, London, E.C.3. 437,703.
  - "PEDOVIS"; for a cattle medicine (2). By L. B. Rowland, 9 High Street, Wrexham. 438,269.
  - "KESTONIK"; for an animal medicine for anaemia, worms and constipation (2). By Keston Home Farms, Ltd., Nash Farm, Keston, Kent. 438,324.
  - "TONOPHOSPHAN"; for chemicals (2) and for medicinal chemicals (3). By L. Casella & Co., 50 Feuerbachstrasse, Frankfurt-on-Main, Germany. 438/427/428. (Associated.)
  - "COLLASAN"; for a medicine (3). By W. Feldenheimer and W. W. Plowman, 19/20 Holborn Viaduct, London, E.C.1. 427,930.
  - "EPROLENE"; for medicinal chemicals (3). By the D. & S. Laboratories, 12 Barnton Terrace, Edinburgh. 434,021. (Associated.)
  - "CLOVER LEAF"; for corn silk (3). By Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1. 436,554.
  - "SAGANZA"; for a medicine (3). By the Kankure Herbal Remedies Co., Ltd., 99 Normanton Road, Derby. 437,854.
  - "FORMADERMINE," "FELARGENT," "DECLONAL," "THYMUROL," and "BISMOCAINE"; for medicinal chemicals (3). By Société Chimique des Usines du Rhone, 21 Rue Jean Goujon, Paris. 438,103/104+105/106/108.
  - "OLYMPIC"; for all goods (11); "BEAVERLOUR"; for all goods (48). By Solport Bros., Ltd., 184/190 Goswell Road, London, E.C.1. 438,352/351.
  - "SCHWEPEP," on label device; for mineral waters, etc. (44). By Schweppes, Ltd., 1 Connaught Place, London, W.2. 436,228. (Associated.)
  - "IRIDA"; on label device; for perfumery, etc. (48). By Nowell & Nowell, 97 Broadway, Leigh-on-Sea. 436,842.
  - "JIG-SAW"; for perfumery, etc. (48). By W. Gossage & Sons, Ltd., Widnes, Lancs. 438,169. (Associated.)
- (From "The Trade Marks Journal," August 15, 1923.)
- "GLINTOL"; for chemicals (1). By the Walpamur Co., Ltd., Hollins Lane, Darwen. 438,806.
  - Picture of Girl in Classical Dress Carrying Package on Tray; for medicinal chemicals (3). By E. C. De Witt & Co., Ltd., 2 Cherry Orchard Road, Croydon. 436,511. (Associated.)
  - "KARISOL"; for medicated soap (1). By F. Hartley, King's Avenue, Rossington, nr. Doncaster. 438,205. (Associated.)
  - "DIASULIN"; for medicinal chemicals (3). By J. Morgan Richards & Sons, Ltd., 46 Holborn Viaduct, London, E.C.1. 438,228.
  - "SCHWEPPES LEMONADE" on label devices; for mineral waters, etc. (44). By Schweppes, Ltd., 1 Connaught Place, London, W.2. 438,598. (Associated.)

## Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in marketing and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

### 42 Cannon Street, E.C.4, September 13.

The extraordinary fluctuations of menthol has furnished the principal topic for discussion during the week. At the week-end small speculative holders released their stocks at considerably below the highest price, but further business has since sent the price again upwards. Most houses are still without definite news as to what stocks remain or the position of forward contracts. The manufacture of menthol in this country is now beyond the experimental stage, and the rapid rise in the price of mint oil was caused by buying on that account. Agar-agar and Japan wax are firm. Camphor is cheaper. Exchange rates fluctuate considerably, but the underlying tone of the franc is firm. The Italian lira has been affected by the political situation regarding Corfu and Fiume. The Board of Trade returns for August show total imports of £88,743,197, an increase of £11,924,863 over July. Exports increased from £59,503,850 in July to £60,103,360. Caraway seed is again dearer, and canary seed shows a firmer tendency. Cascara is advancing; chamomile flowers are cheaper. Eucalyptus oil is a strong market, and a further advance in price may be expected. Sicilian orange oil is cheaper; lemon oil is also tending easier. Pharmaceutical chemicals have been in better demand for small lots, prices being generally steady. Cocaine hydrochloride has again advanced, and the high price of opium is responsible for a further stiffening in the alkaloidal salts. Methyl salicylate is tending firmer. Industrial chemicals have been quiet, and there are practically no important changes to report. Potash prussiate, however, is cheaper.

Higher	Firmer	Easier	Lower
Albumen	Acetanilide	Camphor	Lemon oil
Caraway seed	Agar-agar	Chamomiles	Orange oil
Cocaine hyd.	Aloes (Cape)	Cocoa butter	Potash pruss.
Codeine and salts	Bergamot oil	Coriander seed	Rubber
Eucalyptus oil	Canary seed	Disinfectants	Salol
Morphine and salts	Cascara sagrada	Lemongrass oil	
Opium	Coconut oil	(e.i.f.)	
Peppermint oil (Amer.)	(e.i.f.)	Mercury	
Petitgrain oil (Para.)	Linseed oil	Naphthalene	
	Methyl		
	salicylate		
	Turpentine		
	Shellac		
	Wax, veget.		
	(Jp.)		

A drug auction will be held at the Commercial Sale Rooms next Thursday, September 20.

### Exchange Rates on London

The following is a list of Continental and other exchange rates against the pound sterling on London prevailing at 4 p.m. on Wednesday :-

Place	Method of Quoting	Par of Exchange	September 5	September 12
Amsterdam	Fl. to £	12.107	11.50 <sup>1</sup> —11.51 <sup>1</sup>	11.56 <sup>1</sup> —11.57
Berlin	..	20.43	100 millions	450-500 millions
Brussels	Fr. to £	25.22 <sup>1</sup>	98.60—98.65	95.00—95.10
Calcutta	Per rup.	24d.	16 <sup>2</sup> d.—16 <sup>3</sup> d.	16 <sup>2</sup> d.—16 <sup>3</sup> d.
Christiania	Kr. to £	18.159	27.90—27.93	28.15—28.20
Constantnople	Pst. to £	110	780—800	700—720
Greece	Dr. to £	25.22 <sup>1</sup>	245—255	242—247
Italy	Lire to £	25.22 <sup>1</sup>	106 <sup>1</sup> —106 <sup>2</sup>	103 <sup>1</sup> —103 <sup>2</sup>
Lisbon	Escu.	53d.	2 <sup>1</sup> d.—2 <sup>2</sup> d.	2 <sup>2</sup> d.—2 <sup>3</sup> d.
Madrid	..	25.22 <sup>1</sup>	33.71—33.73	33.78—33.80
Montreal	Pts. to £	4.86 <sup>1</sup>	4.62 <sup>1</sup> —4.62 <sup>2</sup>	4.65 <sup>1</sup> —4.66 <sup>1</sup>
New York	\$ to £	4.86 <sup>1</sup>	4.51 <sup>1</sup> —4.51 <sup>2</sup>	4.54 <sup>1</sup> —4.55
Paris	Fr. to £	25.22 <sup>1</sup>	80.80—80.85	78.65—78.75
Singapore	Per dol.	—	28 <sup>1</sup> d.—28 <sup>2</sup> d.	28 <sup>2</sup> d.—28 <sup>3</sup> d.
Switzerland	Kr. to £	25.22 <sup>1</sup>	25.08—25.10	25.42—25.44
Vienna	Kr. to £	24.02	320,000—325,000 nominal	321,000—326,000
Yokohama	Per yen	24.58d.	—	25 <sup>2</sup> d.—25 <sup>3</sup> d.

### Cablegram

NEW YORK, September 11.—Business is quiet. Menthol has advanced to \$17.00 per lb. Oil of wintergreen (*gaultheria*) is dearer at \$4.25. A further advance of 10c. to \$3.00 per lb. for natural peppermint oil has been made. Cascara sagrada is 1c. higher at 19c. per lb. Balsam tolu is 10c. dearer at \$2.00. Mercury has advanced to \$61.00 per flask.

### Crude Drugs, etc.

AGAR-AGAR.—No. 1 Kobe strips have improved slightly with sales at 5s. 9d., and 6s. per lb. is now quoted.

ALBUMEN.—Prime Chinese egg has advanced to 4s. per lb. For August-September shipment 3s. 10<sup>1</sup>d. c.i.f. is reported paid.

ALOES.—Cape are firmer, firsts being quoted at 47s. per cwt., and lower grades down to 42s. The exports from the Union of South Africa during May amounted to 38,065 lb. (£206), against 51,628 lb. (£256) in May, 1922. During the five months ended May 31 the exports amounted to 213,158 lb. (£1,439), against 112,324 lb. (£677) for the corresponding period of 1922.

ANTIMONY.—There is a fairly steady demand for English regulus in small lots, with special brands standing at £34. 10s. to £35. Foreign refined is dull but steady at about £25 10s. ex warehouse. Fair lines continue to come in from China, including oxide. The latter ranges from about £40 10s. to £42.

BALSAMS.—*Tolu* continues scarce, and 10s. is asked for what little is offering on the spot. *Copaiba* is steady at 1s. 6<sup>1</sup>d. to 1s. 7d. per lb. for B.P. *Peru* is unchanged at 6s. 9d. to 7s. 3d. as to holder. *Canada* is quoted at 6s. 9d.

BISMUTH.—Arrivals from abroad are finding a regular outlet at the price of 10s. per lb. as quoted by the "ring."

BUCHU.—The exports from the Union of South Africa during May amounted to 15,442 lb. (£1,919), against 13,851 lb. (£1,508) in May, 1922. During the five months ended May 31 the exports amounted to 122,350 lb. (£15,431), against 54,953 lb. (£6,787) for the corresponding period of 1922.

CAMPHOR (CRUDE).—Chinese is steady at 3s. 6d. per lb. on the spot, and for shipment 3s. 3d. c.i.f. is quoted.

CAMPHOR (REFINED).—There is a slight reaction from the highest prices paid last week. Slabs, for which 4s. 6d. was paid, are being offered at 4s. 3d. to 4s. per lb. A shipment of fifty cases afloat could probably be had at 3s. 10d. c.i.f. Sales of  $\frac{1}{4}$ -oz. tablets were made at 5s. during the past week, but there are now offers at 4s. 9d.

CASCARA SAGRADA.—New bark is now quoted to come forward at 84s. to 86s. c.i.f. A limited quantity of three-to four-year-old bark can be had on the spot at 95s. to 97s. 6d. The landings in London during August were nil, and the deliveries 4 tons, leaving a stock on August 31 of 14 tons, against 72 tons at the end of August, 1922.

CHAMOMILES.—There are now cheaper parcels of current quality being offered. Those who have already obtained delivery of their new crop flowers will have received the pick as regards colour and size, the later the delivery the smaller and browner the flowers. The very finest white can still command 450s. per cwt.; other grades are offered at 425s., 375s., and 350s.

CIVET.—A parcel valued at £149 has arrived from Aden.

CLOVES.—Zanzibar are steady, with spot sellers at 1s. 1d. per lb. To arrive, October-December shipment is steady at 1s. 1d. c.i.f. The weekly wharf statistics show 1,393 bales landed and 525 delivered, leaving a stock of 17,232 bales, against 1,566 bales in 1922.

COCOA BUTTER is cheaper, C.F.R. offering at 1s. 3d. per lb., other makes 1s. 2<sup>1</sup>d.

COD-LIVER OIL.—Our Bergen correspondent writes on September 10: The market is dull and sales are small. The price is unaltered about 102s. to 107s. per barrel c.i.f. London for non-freezing steam-refined quality.

DRAGON'S BLOOD.—The landings in London during August were 29 cases, and the deliveries 5 cases, leaving a stock on August 31 of 81 cases, against 127 in 1922.

**ERGOT.**—The new Spanish crop is reported to be a good one, and offers are still being made round about 1s. 3d. per lb. c.i.f. On the spot Spanish or Portuguese can be had at the same price.

**HONEY.**—Some business is recorded in Jamaica and Cuban, and pale set Jamaica at 50s. to 55s. per cwt.; liquid amber, 40s. to 45s. Probably buyers are waiting until the sales next week. We understand there is a good selection.

**HYDRASTIS** is firm at 17s. per lb. on the spot.

**IPECACUANHA.**—The landings in London during August were 154 packages Matto Grosso, and the deliveries 25. One package of Minas was delivered, and there were no landings of Minas, East Indian or Cartagena. The stock on August 31, 1923, compared with 1922, was:—Matto Grosso 272, against 181; Minas 14, against 46; Cartagena 7, against 17; and East Indian 4, against 24. Offers of Minas are made at 7s. 3d. to 7s. 6d. per lb. on the spot.

**MENTHOL.**—After our last week's report closed, the price continued to rise, the largest advance being on Thursday, when the price went from 62s. 6d. to 80s. per lb. On Friday further sales were made at 82s. 6d., 85s., and 87s. 6d. On Saturday there was a pause. Monday opened quietly, and without support from the usual channels prices sagged; several holders took profits, other holders took fright. Tuesday found sellers without buyers, and about 20 cases were thrown on the market and sold at 60s., after which other buyers appeared. From 65s. to 75s. was then paid at which there are buyers. It has been reported that several factories have been damaged, if not destroyed, in the earthquake.

**MERCURY.**—The drooping tendency of the market is only to be expected in view of the lethargic demand by home users. Export business also is restricted, although India has been inquiring for some few hundred bottles. Receipts from Spain or Italy are coming on a fair scale, another 500 bottles having arrived this week from the latter source. Business has been done between £8 17s. 6d. and £8 15s. There were a few sellers at the latter figure. The available stocks at this end are not very large, but tend to increase. There is no doubt that a proportionately larger amount of business is being done direct between producing countries and foreign customers instead of through London, as formerly, when the London market was controlled as regards Spanish.

**MILK SUGAR.**—Certain Dutch makers are withholding offers at present, as higher prices are practically assured in the near future, and present spot quotations are not sufficiently attractive. Holders quote from 80s. to 85s. per cwt.

**OPIUM.**—There is no quotation on the London market, spot supplies being apparently cleared. Recent cable advice reports a further advance in Turkey druggists' at 19s. 6d. per lb. c.i.f. for 11 per cent.

**CONSTANTINOPLE,** September 4.—“During the period August 21 to date arrivals were as follows:—Druggists', 623 cases; ‘softs,’ 11; and Malatia, 48 cases. The stocks consisted of:—Druggists', 300 cases; ‘softs,’ 36; and Malatia, 16 cases. During the past fortnight 147 cases of opium were sold, of which 120 cases of druggists' realised 1,720 to 2,025 piastres, 16 cases of ‘softs,’ 2,050 to 2,400 piastres, and 11 cases of Malatia 1,900 to 1,950 piastres per oke. The local market is now very firm, since every day reports are coming in to prove that the crop is far below the estimated amount. Recently, in Salonica, parcels of opium containing 14-15 per cent. of morphine have been sold for as much as 85s. per oke, which represents 30s. per lb. first hand. The increase in the stocks held in Constantinople is explained by the fact that very little opium is being sent to Smyrna, where almost all arrivals are immediately sold at 1,750 to 1,900 piastres per oke, and now in Smyrna even 2,000 piastres per oke is being demanded.”

**PEPPER** is quieter, but prices are on a higher level. Fair black Singapore is offering at 4½d. per lb. on the spot; to arrive, October-December and November-December shipment is quoted at 4½d. per lb., c.i.f., d.w. There are buyers of Lampung October-November at 3½d. c.i.f. Fair Tellicherry spot is 4½d., and fair Aleppy 4½d. spot. White Muntok has spot sellers at 6½d. White Singapore is 6½d. per lb., and September-November sellers quote 6½d. c.i.f.

**PODOPHYLLUM** to come forward is offered at 110s. to 115s. per cwt. c.i.f.

**RUBBER** has declined a further ½d. per lb. since our last report. The weakness is due to liquidations by weak holders. At the same time America has stopped buying for the time being, with the result that special parcels that were earmarked for New York have not been taken up. In spite of this it is difficult to discover any pronounced weakness, and the opinion of the trade is that the set-back is only temporary. Singapore has also been making lower offers, but spot holders, especially the first-hand importers, are not selling at the reduced prices. Deliveries last week were below expectations, and only 793 tons left the warehouses; against this there were arrivals of 1,936 tons, with an increase of 1,143 tons in the stocks. The London stock now stands at 49,801 tons. Quotations (Wednesday, 5 p.m.): No. 1 standard crépe and ribbed smoked sheet, spot and September, 1s. 3½d. per lb.; October-November, 1s. 3½d. to 1s. 3¾d.; January-March, 1s. 4½d.; balata, steady and unchanged.

**SARSAPARILLA.**—The landings in London during August were 45 bales, and the deliveries 31 bales, leaving a stock on August 31 of 214 bales, against 110 bales at the end of August, 1922.

**SEEDS.**—The following spot quotations were current on Wednesday: Spanish ANISE, 85s., and Russian, 62s. per cwt. CANARY SEED.—Mazagan, 19s. 6d. per cwt.; Larache, 18s. 6d. per cwt. CARAWAY SEED.—Dutch, 117s. 6d. per cwt. CORIANDER SEED.—Sound 42s. 6d., and wormy 32s. 6d. to 37s. 6d. per cwt. CUMIN SEED.—Morocco, 125s. per cwt.; Malta, 120s. DILL SEED, 19s. 6d. to 21s. 6d. per cwt. FENNEL SEED.—Indian, 43s. to 45s. HEMP SEED, Manchurian, 14s. 6d. per cwt. FENUGREEK SEED.—Morocco, 25s., and Palestine, 22s. 6d. per cwt. LINSEED.—Morocco, 22s. 6d. per cwt. MUSTARD.—English, 30s. to 35s. per cwt. Apart from canary and caraway seeds, the market is quiet.

**SENEGA** is in better demand, and may go dearer; for spot, 3s. 2d. per lb. is asked. The price quoted for shipment is 2s. 11d.

**HELLAC.**—There has been some fluctuation in the Calcutta quotations, but the market there does not seem to fall much on balance, while the shipments for last month were relatively light. The deliveries on this side have made again a fairly good showing since the past month, and it looks as though less will go into stock this month. Fluctuations have been of no special importance, although prices are high and making for caution. America, of course, is an important sustaining factor. Sellers of usual standard TN orange are quoting higher at 290s. per cwt., fine orange is 310s. to 365s.; and AC cakey, 275s. There are buyers for arrival September-October at 280s. For delivery October 285s. is wanted. December delivery has been sold at 282s. 6d. to 285s.

**SQUILL.**—Good “white” has been in better demand, and supplies are now fairly plentiful, with sellers at 27s. 6d. per cwt.

**STARCH PRODUCTS.**—Dutch farina is steady at 14s. 9d. per cwt., and 14s. f.o.b. Maize starch powder is unchanged at 15s. 1½d. per cwt. Superior Dutch dextrin is 23s., and No. 2, 20s. Rice starch crystals is steady at 40s. and Continental at £33 10s.

**TURMERIC.**—For sound Madras finger, 72s. 6d. to 75s. per cwt. is wanted. Cochin split bulb is offered at 17s. 6d. to 18s.

**WAX (VEGETABLE)** on the spot is a shade firmer at 80s. per cwt.

#### Essential Oils

BUSINESS has improved this week, with a fair demand for several articles. Eucalyptus is active and continues to advance. American peppermint is also advancing, and Paraguayan petitgrain is dearer. Bergamot is firmer, but lemon and Sicilian orange, especially the latter, are cheaper. The peak in mint oil appears to have been reached, but the position must remain uncertain for a time. Geranium oils are scarce and firm.

**ANISE (STAR).**—Sales of "Red Ship" on the spot have been made at 1s. 9d. per lb., and 1s. 9½d. is quoted for smallish lots.

**BERGAMOT.**—The price quoted for prompt shipment, 38 to 40 per cent., is 12s. 2d. to 12s. 4d. per lb. c.i.f., which is rather firmer. On the spot sellers quote 12s. 6d.

**CAMPHOR.**—Sales of white essential have been made at 75s. per cwt. in drums, and 85s. in cases.

**CARAWAY.**—For immediate delivery from spot stocks 28s. per lb. is quoted for Dutch double-distilled. New crop is obtained at 22s. 6d., but importers are not inclined to promise delivery within a fortnight.

**CASSIA** on the spot is unchanged at 11s. 6d. per lb. for 80 to 85 c.a. Spot sales have been made at less, but there is no alteration in the present position. The c.i.f. price is quoted at from 10s. 6d. to 10s. 9d.

**CITRONELLA.**—Ceylon on the spot is quoted at 3s. 10d. per lb. For oil afloat, reshipped from America, 3s. 6d. to 3s. 6½d. c.i.f. is quoted, and distant shipment is 3s. 5d. c.i.f. Java on the spot is quoted at 4s. September-October shipment at 3s. 9½d. c.i.f. Shipments are afloat of Ceylon oil, redistilled at Mysore, and further shipments will be made in September-October. These will not be offered until landed. Ceylon citronella oil now arriving from America is of a better quality than that which normally comes on the English market, buyers there apparently being willing to pay for a less sophisticated article.

**CLOVE** is steady at 7s. 6d. per lb. for English or Continental distillate.

**DILL.**—East Indian distillate is very firm at 15s. per lb.

**EUCALYPTUS** is in active demand and very scarce on the spot. Sales of 70 to 75 per cent. have been made at 2s. 4½d. per lb., and holders are now quoting from 2s. 4d. to 2s. 6d. per lb. as to quality. Parcels afloat have been sold before landing. *E. Citriodora* is steady at 9s., and *E. Amygdalina* is offered at 1s. 2d.

**GERANIUM.**—Bourbon on the spot is very firm at 29s. 6d. per lb. Algerian offers at from 27s. 6d. to 29s. 6d., as to seller.

**LEMON.**—The price quoted for prompt shipment; old crop, and January shipment, new crop, is 2s. 5d. to 2s. 8d. c.i.f., which is rather easier. On the spot 2s. 9d. per lb. is about an average quotation.

**LEMONGRASS.**—Cochin is quiet and unchanged at 2½d. per oz. on the spot; for shipment the quotation is easier at 2¼d. c.i.f.

**LINALOE.**—Spot offers have been made this week of Mexican wood oil at 10s. 6d. per lb.

**MINT.**—Last week, prices of Japanese dementholisised Kobayashi-Suzuki were unprecedentedly rushed up, and as much as 15s. was paid for spot oil and 14s. c.i.f., which, considering the price of American oil, was much above actual value. This week the market is quieter and lower, with prices at 12s. 9d. to 13s. 6d. quoted for spot oil. An unbranded Japanese oil, guaranteed pure (51 per cent. menthol), is offered on the spot at 11s.

**ORANGE.**—The price quoted for prompt shipment, old crop, ranges from 9s. 9d. to 10s. 3d. per lb. c.i.f., and December-January shipment, new crop, is about 9s., which is cheaper. On the spot holders quote from 10s. to 11s. per lb. West Indian is obtainable at 9s.

**PALMAROSA.**—The "Morea" has brought 4 pots from Bombay to London.

**PEPPERMINT.**—American natural tin oil continues to advance, with holders now quoting 15s. per lb. A fair business has been done up to 14s. 6d. per lb., and to arrive up to 14s. 9d.; several shippers asked much higher prices, even up to 16s. A limited amount offers at 14s. 9d. c.i.f. H.G.H. is dearer on the spot at 23s., and to arrive at 22s. 6d.

The advancement in the price of American oil is not due to any sympathy with the Japanese product, the two not being connected in any way. It is evident that advices regarding the short crop appear to contain a considerable amount of truth. Added to this is the fact that the quality of new crop is not up to standard, and distillers have been busy buying largely any old crop that is available.

**PETITGRAIN.**—Paraguayan is advancing, aided by the rise in price of French lavender, and on the spot holders

are now asking from 7s. 9d. to 8s. per lb. The price quoted for shipment is 7s. 3d. c.i.f., and business for large lines at 7s. it is said, has been refused.

**SANDALWOOD.**—East Indian B.P. oil is in good demand with the spot quotation at 25s. per lb. West Australian is offered at 19s. 3d. c.i.f. for 75 per cent. oil.

**WORMSEED.**—Quotations for American new crop oil are cheaper to arrive, but spot is still quoted in the neighbourhood of 35s.

#### Pharmaceutical Chemicals, etc.

In most quarters there seems to have been quite a good inquiry for some lines, but the business done has generally been in small quantities only. The spot position as regards prices appears to be quite steady. Acetanilide is a shade firmer, but salol has been sharply reduced in some quarters. Citric and tartaric acids have been disappointing articles this year.

**ACETANILIDE** has been selling in little lots, and the spot position seems a shade firmer as quoted at 1s. 6d. to 1s. 7d. per lb., and slightly less for quantity.

**ASPIRIN.**—Dealers holding spot supplies of the recognised best brands are not accepting less than 3s., and some are firm at 3s. 1d., unless the order is for quantity.

**BARBITONE** remains slow in demand, but the price is steady at 18s. per lb.

**BENZALDEHYDE, 0.03,** seems of little interest—quoted at 3s. per lb.

**BENZOIC ACID** is nominal at 2s. 3d. to 2s. 6d. per lb.

**BENZONAPHTHOL** shows no change, and business is quiet at about 5s. per lb.

**BETANAPHTHOL** has had one or two inquiries, with dealers quoting at about 1s. 10d. per lb. for small lots.

**BORIC ACID** is steady at the reduced British makers' price for home trade as reported in last week's issue.

**BROMIDES.**—Demand remains quiet, with offers plentiful and at cheap rates. Ammonium, about 7d. per lb.; potassium, crystals and granular, about 6d. to 6½d. per lb.; sodium, crystals and granular, about 7d. per lb. These prices are for quantity.

**CALCIUM LACTATE** is steady, and business has been fair at the quoted values of 1s. 9d. to 1s. 10d. per lb.

**CHLORAL HYDRATE** is in good demand, with duty-paid crystals well maintained at about 4s. per lb.

**CITRIC ACID (B.P. crystals).**—The spot position remains unsatisfactory. The buying season is now ending, and stocks are still held in quantities. Parcels seem to have been offering at 1s. 5d. to 1s. 6d. per lb., less 5 per cent., with hardly any changing hands.

**COCAINE** is steadily advancing, and the price of hydrochloride is very firm at 16s. 9d. per oz.

**CODEINE.**—Owing to the further rise in opium, makers on September 12 announced an advance of 8d. to 1s. per oz., their new scale of prices being as follows :—

	List price	16 oz. and upwards	25 oz. and upwards	100 oz. and upwards
Codeine :				
Alkaloid Cryst. .. oz.	16/9	16/6	16/3	15/9
Precip. .. "	16/9	16/6	16/3	15/9
Hydrochloride .. "	14/8	14/5	14/2	13/8
Phosphate .. "	12/7	12/5	12/3	11/11
Sulphate .. .. "	14/8	14/5	14/2	13/8

**CREOSOTE B.P.** is fairly active at 2s. 5d. to 2s. 6d. per lb., but sales have been small.

**CREOSOTE CARBONATE** is as last reported, 8s. 3d. per lb.

**GUAIACOL CARBONATE** is steady, about 8s. 3d. per lb.

**HEXAMINE.**—Spot prices are now about 3s. 6d. to 3s. 8d. per lb., the former being for large parcels. At these levels the market seems quite firm.

**HYDROQUINONE** is easier again, with little business coming along—spot offers from 3s. 1d. to 3s. 3d. per lb.

**METHYL SALICYLATE** is tending firmer with rather more business, and there is not much obtainable at less than 2s. 4d. to 2s. 5d. per lb. for tins or carboys.

**METHYL SULPHONAL** is unchanged at about 14s. 6d. per lb.

**MORPHINE AND SALTS.**—Owing to the increased cost of opium makers announce a further advance of from 1s.

to 1s. 2d. per oz. from September 12. Their prices for the alkaloid and salts are as follows :-

	List price	16 oz. and up- wards	25 oz. and up- wards	100 oz. and up- wards
Morphine : Alkaloid Cryst. .. ..	14/5	14/1	13/9	13/5
Precip. .. ..	14/2	13/10	13/6	13/2
Acetate .. ..	11/3	11/-	10/9	10/6
Bromide .. ..	14/2	13/10	13/6	13/2
Hydrochloride .. ..	11/3	11/-	10/9	10/6
Cryst. .. ..	11/6	11/3	11/-	10/9
Meconate .. ..	14/2	13/10	13/6	13/2
Sulphate .. ..	11/3	11/3	10/9	10/6
Cryst. .. ..	11/6	11/3	11/-	10/9
Tartrate (neutral) .. ..	14/2	13/10	13/6	13/2 50 oz. and up- wards
Morphine diacetyl .. ..	16/9	16/6	16/3	15/9
Morphine diacetyl hydro- chloride .. ..	15/9	15/6	15/3	14/9
Morphine ethyl hydrochloride	16/9	16/6	16/3	15/9

MUSK XYLOL is firm on the spot with sellers at 9s. 6d. to 10s. 6d. per lb.

PARAFORMALDEHYDE is steady but rather quiet; quotations range from 3s. 5d. up to 3s. 8d. per lb., according to quantity.

PARALDEHYDE has been inquired for, with dealers quoting from 1s. 5d. to 1s. 6d. per lb.

PHENACETIN is offering on spot in large lots down to 5s. 10d. per lb.; smaller parcels are quoted up to 6s. 3d. per lb.

PHENAZONE seems steadier, and is selling freely at 7s. 3d. per lb.

PHENOLPHTHALEIN is fully up to last week's figures, with dealers quoting at 6s. 6d. to 6s. 9d. per lb.

POTASSIUM PERMANGANATE is steady, with business in the region of 10d. per lb. for B.P. material.

RESORCIN is a little steadier at 5s. 6d. to 5s. 9d. per lb., but there is little improvement in demand.

SALICYLIC ACID, B.P., is now offering on spot by dealers at 2s. 1d. to 2s. 3d., the former rate being for large parcels. The market seems very steady.

SALOL is weaker. Spot sales have been made recently at 3s. 1d. per lb., but spot quotations are in some directions being made at 2s. 9d. and even less.

SODIUM BENZOATE is nominal at about 2s. 6d. per lb.

SODIUM DIETHYLBARBITURATE is unchanged at 18s. per lb.

SODIUM SALICYLATE.—Dealers' prices, which are generally shaded for actual business, are:—Crystals, 2s. 8d. to 2s. 9d. per lb.; powder, 2s. 5d. to 2s. 6d. per lb. Spot supplies seem rather limited at the moment.

SULPHONAL is seldom inquired for—dealers' prices unchanged in the region of 14s. per lb.

TARTARIC ACID. The spot position remains weak, with business very quiet. Quotations are in the region of 1s. 2d. per lb., less 5 per cent.; some holders may accept less for good business.

TERPIN HYDRATE is a very steady market as quoted at 1s. 9d. per lb., with business small.

### Industrial Chemicals, etc.

London, September 12.

THIS market has been more active in some directions during the week, but most of the business is rather small. Prices seem to be steady, with little alteration to record. Prussiate of potash has again moved to lower levels.

ACETIC ACID is fairly active, with spot supplies continually short; 80 per cent. technical, £47; 80 per cent. pure, £51; 98 per cent. glacial, £60 in casks, and £75 in glass demijohns, ex wharf, London.

ACETONE.—British Government specification material is firmly held on spot at about £125 per ton, in drums, with not much about to meet a good inquiry.

ALUM is slow as far as dealers are concerned, who are offering Continental lump in casks in the region of £10 per ton.

AMMONIA (ANHYDROUS) is nominal at 1s. 5d. per lb. for 99.95 per cent., with no inquiry on the market.

ARSENIC.—The market is unsettled, some low prices being mentioned lately, even in the case of white Cornish

for forward delivery, down to about £60 a ton, free on rail. There is not a great deal offering, however, the quotation delivered London being at around £64. The undertone is weak. Mexican is reported to have been offered down to about £50. During the first quarter of this year America imported about 2,700 tons. Her production for the first half of this year was 6,035 short tons of refined arsenic, besides 1,183 tons of crude oxide. The production is thus well above that of last year.

BARIUM CHLORIDE has been quiet, with dealers offering spot material at about £15 per ton, and somewhat less for forward delivery.

BORAX.—The reductions in British makers' prices recorded last week hold good, and are expected to remain for some time to come. The same applies to dealers' prices.

COPPER SULPHATE.—The keenness of competition between this country and the Continent, especially Italy, is the outstanding feature in this article, but offers at anything near £25 a ton f.o.b. for casks would seem to be exhausted. The nearest quotation cannot be less than £25 10s. The export trade should improve shortly.

CREAM OF TARTAR has been moving fairly well in limited lots at about 88s. to 90s. per cwt., less 2½ per cent.

EPSOM SALTS.—Spot parcels of commercial quality, which are slow in moving, are offered in the region of £5 per ton, in bags.

FORMALDEHYDE on spot is nominal at £95 per ton. Inquiry for forward delivery with the quotation at about £75 per ton is quite good.

LEAD ACETATE keeps fairly steady, but has quietened down in demand. Brown, about £40; white, about £41 per ton.

LITHARGE has been in some little request, with dealers quoting at about £35 10s. to £36 per ton, London.

LITHOPONE is in good demand, with 30 per cent. Continental red seal very steady at about £22 10s. per ton.

POTASH CAUSTIC.—There has been no great improvement since the reduction in prices recorded last week. The market still seems unsteady in the region of £30 per ton.

POTASSIUM CARBONATE.—No further fall in values is recorded, but demand continues very quiet: 90-92 per cent., £26 10s. to £27; 96-98 per cent., £30 to £31 per ton.

POTASSIUM CHLORATE is unchanged, with business still flat at 3d. per lb.

POTASSIUM PERMANGANATE is well maintained as last quoted at 9½d. to 9¾d. per lb. for commercial quality.

POTASSIUM PRUSSIATE has experienced a further cut in the spot price, with dealers now selling at about 1s. per lb. for yellow.

SODA CAUSTIC.—British makers' prices to domestic consumers on contract show no further change at: 70-72 per cent., £16 17s. 6d., and 76-77 per cent., £18 7s. 6d. per ton, in drums, carriage paid in Great Britain. Dealers are quoting, ex wharf, shipping port at 70-72 per cent., £17 10s., and 76-77 per cent., £19 10s. per ton, in drums.

SODIUM ACETATE is very steady and fairly active at £24 10s. per ton.

SODIUM BICARBONATE.—British makers' prices are unchanged at £10 10s. per ton for refined, in bags, and about 30s. less for mineral water.

SODIUM BICHROMATE, for home trade only, from British makers, is steady at 4½d. per lb.

SODIUM CARBONATE (washing crystals) hold at unchanged price of £5 5s. per ton, in bags, as quoted by British makers for home trade only, carriage paid in Great Britain

SODIUM CHLORATE is still a quiet feature, with the general quotation in the region of 2½d. per lb.

SODIUM HYPOSULPHITE.—The demand for pea crystals on spot has been poor of late, and some parcels are said to be available as low as £13 10s. to £14 per ton, but the general price asked is nearer £14 10s. per ton, in 1 cwt. kegs. Spot commercial quality, in casks, is about £9 to £9 10s. per ton.

SODIUM PRUSSIATE.—Demand has not improved, and dealers' prices are rather weak as quoted at 6d. to 6½d. per lb.

**COAL-TAR PRODUCTS, ETC.**—Pitch remains dull, but is steady as regards value. Naphthalene is somewhat easier for some grades. Other products are unchanged, but the market generally is rather unsteady. ANILINE OIL and SALT is unchanged at 9d. to 10d. per lb., packages free. BETANAPHTHOL is occasionally inquired for, with the price level at 1s. 1d. to 1s. 2d. per lb. PITCH has been quiet, but is expected to brighten up in the near future; the quoted rate, East Coast, is still at about 13s. per ton. PURE METHYL ALCOHOL is steady and in demand at about £100 per ton, ex wharf, London. DISINFECTION have been dull recently, and the price is a little easier in the region of £19 10s. to £20 per ton. Crude, £5 to £11; crystals, £23; powder, £17; balls, £24; tablets, £28; candles, £28 per ton, packages free.

#### Fixed Oils, etc.

BUSINESS has been fairly satisfactory, and the recent improvement has been sustained. Acid oils are especially firm. Palm oils are steadily improving. Linseed closes firm. ACID OILS.—The position on spot is now firm, with supplies scarce. Inquiry is good. Coconut-palm kernel, 38s.; there is no groundnut on offer. Soya, about 35s., all spot. CASTOR.—The ex mills. Hull prices are unchanged; pharmaceutical, 56s.; first pressings, 51s.; second pressings, 50s., all spot. COCONUT.—The tone is much firmer here and higher rates are quoted for shipment; deodorised, on spot, 47s.; Ceylon, c.i.f., 44s. 6d.; Cochin, c.i.f., 56s. COTTONSEED.—Last week's higher rates are being fairly well maintained, but the market is much quieter and certainly not so strong; deodorised, 47s.; common edible, 44s.; soapmaking, 42s.; crude, 37s. 6d., all spot. GROUNDNUT.—Prices advanced early on, with the market since then inactive; deodorised, spot, 53s. 6d.; crude Oriental, c.i.f., 47s. PALM KERNEL.—The tone has improved here and higher prices are quoted; deodorised, 45s. 6d.; crude, 40s., all spot. PALM.—A continuation of advancing prices is recorded here, with the tone of the market at the close decidedly firm. Business has been good. Lagos, 36s. 6d.; softs, 35s. 6d.; mediums, 36s. 3d.; hards, 36s.; bleached, 38s. all spot. RAPE.—Quoted values are unchanged; refined, 42s. 6d.; crude, 39s. 6d., all spot. SOYA.—After the sharp decline recorded last week, this market has recovered a little and closes firm; deodorised, 45s.; crude, 40s., all spot. LINSEED (raw, naked).—At the close, after a week of advancing prices for all positions, this market was quieter and quotations were irregular, with a tendency to re-act. On spot, about 41s. 6d.; September, 41s.; September-December, 39s. 4d., closing 40s.; January-April, 36s. TURPENTINE.—Considering the dull state of the market of late, the continued good deliveries from the wharves have been somewhat puzzling. Stocks up to the close of last week amounted to about 16,000 barrels. The demand has been again stagnant, but prices have experienced very little alteration, while January-April has ruled at about 2s. 6d. per ewt. premium, as compared with spot delivery. The market at Jacksonville and at Savannah have kept quite steady, with the quotation at the latter point about 88c. Total London stocks are returned at 11,700 barrels of American spirit. Spot closes dearer at 70s. 3d.; September-December, 71s. 9d.; January-April, 73s. 9d. WOOD.—Hankow in barrels is inactive, with the spot quotation at 91s.

LUBRICATING, MINERAL AND BURNING OILS.—Lubricating oils keep very steady on spot. Other products show but little change on the week, with business still rather slow and small in volume. BENZOL keeps steady but quiet at unchanged values, makers quoting at 1s. 4d. per gallon, f.o.r. works, in buyers' packages. BURNING OIL.—Crude No. 3, 8d.; No. 2, 8d. per gallon, barrels free. The position is as last reported. FUEL OIL: 895 to 910 gravity, £4 7s. 6d., and 950 gravity, £3 10s. per ton, ex tank; market is steady but quiet. SOLVENT NAPHTHAS are a weak feature, although quoted rates are made on the old levels. 90 to 160, 1s. 5d., and heavy 90 to 190, 1s. 4d. per gallon, drums extra. Naphtha has not fallen any further from its recent new level of 1s. 4d. per gallon; demand is slow. PARAFFIN WAX and SCALE: Wax keeps well up to its former rates of 2d. to 3d. per lb., according to melting point, in bags. Scale is very firm as quoted for shipment at £15 15s. per ton, c.i.f. U.K. port. PETROLEUM OILS: American prime white, 11d.; American water white, 1s. per gallon, barrels free; Russian prime white kerosene holds at the rates quoted last week, which showed a slight reduction for some grades at 6d. to 6½d., ex tank; 6½d. buyers' barrels, filled free; 9½d. barrels free, ex wharf, London. PETROLEUM JELLIES: Snow white, £58 to £64; yellow, £20 to £26; red vet, £20; ruby red, £21; dark stiff green, £13 15s. per ton,

barrels free, ex wharf, London. SPECIAL OIL, for Diesels and motors, 10d. per gallon, barrels free; quoted rates unchanged. WHITE OILS: There is no improvement in supplies; prices are firm. Special No. 1, £44; No. 1, £38; No. 1a half white, £35, in drums; No. 2, £27, in barrels, ex wharf, London. LUBRICATING OILS: Spot quoted rates show no change on the week and the position seems quite good. Shipment rates are also level on the week, but some slight advances are looked for unless the price of crudes is reduced. Spot prices: Pales, £10 10s. to £25; reds, £13 10s. to £23; dark cylinders, £14 10s. to £28; filtered cylinders, £19 10s. to £32; blacks, £7 10s. to £15, ex wharf, London, less 2½ per cent. SOLUBLE OIL, £18 10s. per ton, net. No. 1 RUSSIAN OIL is offering in London, ex wharf, at £18 10s. per ton, less 2½ per cent.

#### German Economic Situation

THE fantastic depreciation of the mark, which has fallen as low as 600,000,000 to the pound, has imparted the death blow to the paper currency for all business transactions, and now quotations and dealings are based either on the dollar, or on what are termed the "gold mark," "basic mark," or "stable mark," the values of which are also calculated on the dollar exchange. Even the Imperial Bank has now been compelled to open accounts in "gold marks," although some time ago the use of other than paper currency was regarded almost in the light of treason. For the moment interest centres in the question of introducing a new or parallel currency, some form of monetary standard possessing, as far as possible, a definite and stable value, and it remains to be seen how the problem will be solved in Germany, which can profit by the experience gained, on a very much smaller scale, in several other Central European and Baltic States where this question has already been settled by various expedients, not forgetting Russia. Recently, to emphasise Germany's precarious position, the Minister of Economics drew attention to the rapid decline in exports, pointing out that the value of the export licences granted in July amounted to barely one-fifth of the goods licensed for export in May. German prices, in spite of the depreciated currency, which foreigners regarded as an export premium, were in many instances higher than those quoted abroad, and he mentioned that since the end of June salaries and wages had increased three to four times more rapidly than the corresponding fall in the mark, while the output of the workers represented only one-half of the pre-war production, an assertion which has been vigorously combated in labour circles. Business in the chemical and drug markets is now very irregular; pharmaceutical chemicals continue to attract speculators, as usual, but actual dealings are limited to small transactions. The following are the export prices quoted in Hamburg for one kilo, unless otherwise stated, and it is interesting to note that in some cases the export price in shillings is higher than the price for the home market in gold marks:—Agar agar, 5s. 5d. per lb.; balsam of Peru, genuine original, \$4 and \$3.75; balsam of Peru, Ph. G.V., for Germany 7.50 gold marks, for export \$1.70; Benzaldehyde, almost free from chlorine, for foodstuffs, 3 gold marks, for export 4 Swiss francs, free to frontier; benzoic acid, 4s. 6d.; camphor, 3s. 9d. per lb.; chamomiles, prime Hungarian, September delivery, \$13 per 100 kilos; citric acid, 18 lire; coumarin, inland 28 gold marks, export 30s.; cream of tartar, 98-100 per cent., \$47 per 100 kilos; ergot, \$60 per 100 kilos; eucalyptus oil, 2s. per lb.; glycerin, 20° Bé., chemically pure, inland \$43, export \$44 per 100 kilos; hexamethylenetetramine, \$1.20; menthol, 39s. 6d.; milk sugar, inland price has declined to 0.80 gold mark, while the export price has advanced to £75 per ton; phenacetin, inland price 12 gold marks, export 12s. 6d.; phenolphthalein, 13s.; potassium sulphoguaiaconate, 14 Swiss francs; quinine hydrochloride, Ph. G.V., £5; quinine sulphate, £4 10s.; salicylic acid, 4s. 3d.; for the home market 4 gold marks is the price now quoted; santonin, "it is reported that the Soviet has sold the whole of its production in London, and has reduced its prices," quoted £70; sodium benzoate, 2s. per lb.; tartaric acid, 1.75 fl.; vanillin, 4s. New arrangements have been made for the payment to German exporters of the sums paid to the British Customs authorities under the German Reparation (Recovery) Act. In future the receipts issued by the British Customs will be reimbursed at the rate of exchange quoted on the date of presentation or reception by the Friedensvertrag-Abrechnungsstelle in Charlottenburg. Receipts which reach that office later than one month from the date of their issue will not be reimbursed unless the German exporter is able to prove that he is in no way responsible for the delay.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

### Pharmacy in Ireland

SIR.—An item in your "Irish News" (*C. & D.*, September 8, p. 347) calls for some remarks. It states in reference to a general meeting of Northern pharmacists that it "has been called by the general committee appointed at a trade meeting two years ago." This is in error. The meeting on September 5 was called unofficially so far as I know, and by some private individuals, though the summons was issued on official paper. The "Business" paragraph bears me out in this, prejudicing by its language any reasonable consideration of the question from the very first. We have a Government second to none in the world, firm, just, impartial and approachable, who seek "to govern the people through the people for the people," and who when circumstances—not individuals, as has been insinuated—have forced upon them the necessity of new pharmaceutical legislation, invite the assistance and co-operation of everyone interested, plainly stating that they approach the matter with an open and unbiased mind, anxious for and willing to consider all suggestions. If our "rights and privileges" (how hopeful it is to hear pharmacists use such an expression, even if in a wrong connection) be in any way invalidated by any subsequent legislation it will be our own fault and our own only. Can anyone deny that the "abolition of the R.D. grade" would not be a great advantage to the trade generally, removing completely as it would a source of eternal confusion in the minds of the public and removing also a competitor who very seriously hits us in the most profitable parts of our business without having to carry the stock we as dispensers must carry, or the heavy duties and responsibilities placed upon us? Is it impossible that so desirable a consummation cannot be effected except "at our expense and the consequent lowering of our status"? The druggists have shown that they are willing to help us in arriving at a reasonable settlement: I do not refer to some among them who apparently have not been equipped by nature with any reasoning faculties whatever, but to the great majority whose plan is co-operation, not "stand and deliver." Is it not time that the now ancient and ludicrous bogey of "non-recognition" was buried? . . . Surely our business sense is acute enough to enable us to decide which is the best course to adopt, but let us have done with private meetings of no representative value, let us devote to construction the energy so dissipated, let us sink our personal feelings and ambitions and get to work for the common good as a compact body, remembering that those who are not with us, who will not work with their fellows, are against us; and, above all, let us leave our successors no legacy of bitterness.

Yours faithfully,  
J. HEWTON.

Belfast.

SIR.—At least one member of the Council of the Pharmaceutical Society of Ireland is doing his best to improve the lot of his brother pharmacists and druggists. He constantly impresses on licentiates the necessity of becoming members of the Society. It is gratifying to note that new members are being added each month. The revenue thus obtained is to be used for the prosecution of those who do not play the game. Offenders in this respect could be classed as follows:—

1. R.D.s who compound prescriptions written by Doctors of Medicine.

2. L.P.S.I.s in business who, holding public appointments, do not employ either a qualified assistant or L.P.S.I. during their daily absence. (I wonder why such people are called "Apothecaries" in the Society's calendar.)

3. L.P.S.I.s who oblige unqualified friends by "owning" their medical halls.

4. L.P.S.I.s who act as "covers."

5. L.P.S.I.s who sub-let their public appointments to unqualified friends.

It would be difficult to determine which of the above are the most despicable, but quite easy to estimate which are the most prevalent. Now that there are rumours of new pharmacy laws, it would be a good opportunity to leave no loop-holes for the above.

Yours faithfully,

R. D. (10/9).

### Inaccuracy in Dispensing

SIR.—From a number of prescriptions which we have recently tested it appears that variations in the strength of some of the British Pharmacopœia preparations are responsible for prescriptions being inaccurately dispensed more frequently than actual negligence in weighing or measuring. The strength of B.P. dilute acids in particular requires more attention, since variations of 20 and 30 per cent. seem to be quite common. It should be noted that the formula given in the B.P. for acid. sulph. dil. is not to be relied on to give a correct preparation without the subsequent volumetric standardisation. Other substances which necessitate occasional checking are: Ammonium carbonate, ferrous sulphate, tr. quinin. ammon., spt. aether. nit., and lin. camph. We are prepared to extend our offer (*C. & D.*, August 11, p. 260), and to undertake the analysis of these and most other B.P. chemicals for this purpose at the nominal fee of 2s. 6d. per sample.

THE CITY LABORATORIES.

113 Leadenhall Street, London, E.C.3.

### Latin in Pharmacy

SIR.—I should like to point out to "Veteran" (*C. & D.*, September 8, p. 371) that commercialising pharmacy would not "lower or cheapen it"; if anything, it would raise the status of the pharmacist. We, as a commercial nation, have more respect for the progressive man than for the good soul full of theories, good intentions, and moth-eaten ideas. The cause of the troubles of pharmacy is that it is very much behind the times, and the sooner that is recognised the better for all concerned. I take it for granted that "Veteran" is one of the old school, but, with all due respect for age, they must toe the line with the younger generation of progressive men. I will grant "Veteran" this much—that long experience of dispensing is an asset which, unfortunately, is too often overlooked in these days of "too old at forty." If in the position of an employer I would sooner employ a man of forty-five or even fifty, who had kept pace with the times, than the average dispenser of twenty-five, whether male or female.

Yours faithfully,

C. WM. DOUBLEDAY.

Kirkstall, Leeds.

SIR.—What is the significance of "Latin in Pharmacy," "raising the chemist's status," and such-like shibboleths so long as anyone can set up a chemist's shop or any number of them, provided he keeps a qualified assistant on the premises at a couple of pounds a week? If that could be done in the medical profession, doctors might quote Latin by the yard, without maintaining their "status." Think what it would be if anyone could set up as "Cash Doctor" with thousands of branches, keeping a qualified hack in each at so much a week. Where would the medical status be, Latin or no Latin?—Faithfully yours,

THE CHEMICAL WORM (12/9).

### Dispensing Department Arrangements

SIR.—The plan and set-out generally given in the *C. & D.*, September 8, p. 351, look to me quite admirable. What a pleasure it is to work in a room properly fitted to the work in hand. I do not see any adequate provision for aq. dest. I favour a glass (or earthenware) barrel with tap, on a special shelf. A simple

arrangement for ointment slabs is to fix to any convenient upright surface two strips of wood rather thicker than the slab, and as far apart as the dimensions of the slab, then two broader strips of wood tacked on to these to form a groove or rebate into which the slab is pushed. The slab is then safely out of the way.—Yours, etc.,

INTERESTED (10/8).

#### Slackness in British Pharmacy

SIR.—Four years ago I retired from business, and having attained the object then in view am now in quest of another business. In the course of my inquiries I find a lack of directness in nine cases out of ten, general statements, and skilfully evaded questions, so that it is practically impossible to get facts from the vendors. I recollect the time when it was the exception and not the rule to find this state of things, which presumably is a product of the war. I have been impressed by the large numbers in pharmacy who run businesses and yet do not possess the legal qualification. Of the numerous answers to my advertisements I quickly weed out (1) all whose names do not appear on the Register, also (2) all who have not been proprietor for a period of at least seven years. When I have accumulated sufficient evidence, and I have quite a lot already, I propose putting my facts as to the first class before the secretary of the Pharmaceutical Society, for it is fully time the Society as a State department took action to prevent these undesirables reaping where they have not sown, and so protect the public. In category No. 2 I find there is a tremendous amount of trafficking in businesses going on, and I cannot too strongly urge prospective buyers carefully to inquire beforehand as to the history of the ownership. Buyers should beware of businesses which have changed hands perhaps several times this last four or five years. Of the many artful dodges of the great unqualified to make up for lack of the legal qualification I propose to write at a later date.—Yours truly,

PUZZLED (21/8).

SIR.—I shall probably raise a storm of protest when I state that the majority of chemists I have met are "square pegs in round holes." Pharmacy is full of misfits, and the more pharmacists I meet the more certain I am that there is nothing wrong with pharmacy, but there is a great deal wrong with the type of men who are in the craft to-day—that is, so far as the majority are concerned. Most of the best men are in the company shops, where they must be competent to keep their jobs. There is nothing wrong with pharmacy; it is the finest trade *cum* profession in the world, and it offers a tremendous scope to the right type of men. Success is assured if one has the ability and enterprise to take hold of all the opportunities which the craft offers. So take heart, all ye budding apprentices and students of pharmacy; heed not the wail of "ye olde chymists," who are going to the "bow-wows," and imagine we are all going with them. Don't you believe it! There is nothing wrong with pharmacy, and there never has been a more golden outlook or greater need for the right type of pharmacist than now.

Yours faithfully,

HOLIDAY LOCUM (16/8).

#### Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

##### Appreciations

Cannot afford to miss the C. & D. even for one week.  
—N. K. P. (145/7).

The value . . . is enormous to every chemist. . . .  
Long live the C. & D.!—W. R. W. B. (31/7).

S. P. (29/8) writes: Many thanks for your reply to my legal inquiry. I have been a subscriber for more years than I care to remember, yet always look forward to the C. & D. every week. When in France there was a general scramble for it, as a good many of the

"boys" didn't get it sent out. I was fortunate in never missing a single issue, however. It is rather late in the day to mention this, but I have not had occasion to write you since the war.

##### Hearing Apparatus

In reply to "R. W. B." (C. & D., September 8, p. 371), if an electrical aid is required, D. & J. Hills' phones are cheap and excellent. The address is Ludgate Hill, I think. If an instrument of the trumpet or resonator variety is preferred, F. S. Reiss, 108 Strand, supplies a quite small one which is very efficient. —J. P. N. (10/8.)

#### Legal Queries

H. M. R. (8/9).—The only way of making sure that a proposed trade-name does not infringe other traders' rights is to apply for its registration. The search and advertisement which follow in the ordinary course would soon disclose whether the name was regarded as infringing existing registered marks.

R. M. W. (8/9).—We are still waiting for the Order in Council that is to define the method of stating on a label the amount of poison contained in a pharmaceutical preparation. It is not known, for instance, whether the percentage will have to be given or the quantity of poison in each dose. We shall go into the matter in the C. & D. so soon as the Order is published.

Nero (23/8) was adjudicated bankrupt, upon his own petition, over ten years ago. Is it legal for him to start trading again in his own name, or must he wait until he has obtained his discharge? ["Nero" may carry on business under his own name; but he must not obtain credit to the extent of £10 or upwards, from any one person, without disclosing the fact that he is an undischarged bankrupt.]

Susan (10/8).—Lysol should contain at least 50 per cent. of cresols, this being one of the points brought out by the Comptroller of Patents during the inquiry which resulted in the trade-mark being removed from the Register in this country. A few prosecutions under the Merchandise Marks Act would soon stop the dangerous practice of selling so-called lysol containing only a small proportion of cresols.

G. B. (8/9).—SALE OF DILUTED LAUDANUM.—The sale of diluted tinct. opii without conforming with the Dangerous Drugs Act Regulations is quite legal but anomalous. When the objection was made by the Pharmaceutical Society that the Regulations prevented the sale of tinct. opii (and so went beyond the Act), the Home Office used the argument that the Regulation only prevented the sale of tinct. opii of full strength. They suggested that diluted tincture would answer equally well for veterinary use, etc.

J. L. S. (31/8), who holds a wine licence, makes and sells a blood wine (*vin. ferri cit.*, B.P.), but this does not suit the palate of some of his customers. He asks if he can make and sell another blood wine with another wine, say port, and with a small quantity of ferri amm. cit. And, further, whether he could not make and sell a blood wine without ferri amm. cit., using, say, ext. sarzae and making the appropriate alteration on the bottle label. [If the wine licence held by "J. L. S." is an ordinary wine retailer's off-licence to which no conditions have been attached by the justices on the grant of it, any of the wines referred to may be made and sold under it. But if on granting it the justices, as sometimes happens, made it a condition that certain wines, say medicated or medicated in a certain way, only should be sold under it, although no offence in law would be committed by ignoring this condition, the justices might refuse to renew the licence at the next licensing sessions. But any wine which in the opinion of the Commissioners of Customs and Excise is so medicated as to be unfit for use as a beverage may be sold by duly-qualified chemists without licence, whether Excise or justices' licence. See some examples in C. & D. Diary, 1923, p. 237.]

## Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

*A. & H.* (4/7).—So far as we are aware there is no way of avoiding the deposit which forms on keeping syr. ferri phosph. co. B.P.C.

*F. G. H.* (31/7).—**PERUVIAN BARK.**—You will see by referring to the *C. & D.* Retail Price List that cortex cinchonæ succirubra is the kind of Peruvian bark which customers require from chemists.

*H. G. & C.* (2/8).—(1) **HONEY AND FLOWERS.**—

Castor oil	... ...	... 3 <i>i.</i>
Almond oil	... ...	... 3 <i>v.</i>
Bergamot oil	... ...	... <i>x.</i>
Lemon oil	... ...	aa <i>m.</i>
Clove oil	... ...	... <i>m.</i>
Lavender oil	... ...	aa <i>miv.</i>
Essence of violets	... ...	... 3 <i>i.</i>
Iso-propyl alcohol	... ...	... 3 <i>v.</i>
Rectified spirit	... ...	... 3 <i>v.</i>

(2) **EAU DE PORTUGAL.**—

Lemon oil (terpeneless)	... <i>m.</i>
Bergamot oil (terpeneless)	... <i>mxl.</i>
Sweet orange oil	... <i>m.v.</i>
Rose geranium oil	... <i>m.v.</i>
Spirit (70 per cent.)	... Oij.

The spirit may be replaced wholly or partly by iso-propyl alcohol, in which case there is no advantage in employing the expensive terpeneless oils in place of their equivalents of the natural oils.

(3) **DRY SHAMPOO.**—

Coco-nut oil soap	... ...	1oz.
Crush and dry so that it can be powdered, then add		
Borax	... ...	2oz.
Mix and sift.		

(4) **LIQUID SHAMPOO.**—

Coco-nut oil soap	... ...	2oz.
Glycerin	... ...	1oz
Bay oil	... ...	5 drops

Distilled water to 8oz.

When dissolved, stand in a cool place to deposit. The method of making the coco-nut oil soap is given in the *C. & D.*, January 7, 1922, p. 12.

*S. B.* (57/38).—See reply to "H. G. C."

*S. C. R.* (21/6).—**DISINFECTION OF A WINE CELLAR.**—where it is not desired to burn sulphur, can be effected by the use of liquid sulphur dioxide. This can be purchased for the purpose in convenient packages.

*W. G.* (4/8).—**ICE-CREAM POWDER.**—A formula was given in the *C. & D.*, I., 1923, p. 498. The addition of 0.5 per cent. of gelatin is an improvement, as the resulting ice-cream has then the superior smooth texture so much desired.

*W. M.* (26/7).—**STAINING CELLULOID PIANO KEYS.**—The two methods of dyeing celluloid are: (1) Immersion in a solution of lead nitrate, followed by a solution of potassium chromate; (2) application of an alcoholic solution of spirit-soluble aniline yellow. The difficulties in matching the old discoloured keys make the methods hardly feasible. It might be a better proposition to degrease and bleach the old keys, using (a) benzene, (b) infusorial earth and ammoniacal solution of hydrogen peroxide. It is not easy to operate on the keys whilst they are fixed on the key-board.

*G. R. T.* (17/7).—**DRUNKENNESS CURES.**—There is much useful information on this in "Pharmaceutical Formulas." The powders intended to be added to beverages so as to nauseate the drunkard consist of a trace of emetine in sugar of milk, or pulv. ipecac. gr. v. The theory is that feeling sick after taking a "nip" will disgust the drunkard, but in practice we are afraid that confirmed drunkards would not be deceived by any such well-meant effort at their reform.

*W. S.* (14/3).—**DALE'S PLASTER.**—Lead oleate is an integral part of this plaster, and we know of no ingredient that would give the same adhesive property. You might experiment with such ingredients as Burgundy pitch and Canada balsam for the production of a leadless Dale's plaster.

*J. K. Y.* (17/7).—**STRAW-HAT VARNISH.**—The formulas given in "Pharmaceutical Formulas" may be used, and you should obtain permission to employ industrial methylated spirit as the basis. The dull varnish is made as follows:

Shellac	... ...	15 parts
Resin	... ...	25 parts
Black aniline-dye (spirit soluble)	... ...	1 <i>1</i> / <sub>2</sub> parts
Powdered naphthalin	... ...	1 part
Boric acid	... ...	3 parts
Spirit (95 per cent.)	... ...	60 parts

Dissolve the shellac and resin in the spirit, strain and add the other ingredients.

**Dispenser** (25/6) and **W. G. R.** (12/7).—**STEARIN VANISHING CREAM.**—The following is from "Pharmaceutical Formulas":—

Stearic acid	... ...	30 grams
Theobroma oil	... ...	5 grams
Sodium carbonate cryst.	... ...	20 grams
Borax	... ...	5 grams
Glycerin	... ...	25 c.c.
Terpineol	... ...	2 c.c.
Bitter almond oil	... ...	2 drops
Rose geranium oil	... ...	15 drops
Rectified spirit	... ...	30 c.c.
Water	... ...	400 c.c.
Tragacanth mucilage	... ...	100 c.c.

Place the ingredients, except the perfumes and alcohol, on a water-bath and heat until effervescence ceases. Remove from the heat, and when the mixture begins to harden add the perfumes dissolved in the alcohol and mix well. Allow to harden, then warm and heat until a fluffy cream results.

**Preservative** (7/7).—**FOOD PRESERVING POWDER.**—The following are representative powders of the class you require:—

I	II
Borax	... ... 10 oz.
Boric acid, equal parts	Boric acid ... ... 1 oz.
	Rice flour ... ... 1 oz.

*K. H. L.* (14/6).—**BOOKS ON LUBRICANTS.**—Archibutt and Deeley's "Lubrication and Lubricants" (Griffin, 25s.); Hurst's "Lubricating Oils, Fats and Greases" (Scott, Greenwood, 10s. 6d.); Jameson's "Manufacturers' Practical Recipes," Vol. III. (Lewis Jameson & Co.).

## Retrospect of Fifty Years Ago

Reprinted from  
"The Chemist and Druggist," September 15, 1873

### Imprisonment for Debt

A Select Committee of the House of Commons was appointed last session to inquire into the subject of imprisonment for debt by County Court judges. The conclusion recommended by this Committee amounts to this, that upon the hearing of any judgment summons the judge should inquire whether there are any other debts, and the debtor should be required to deliver a full and true account of all the debts due from him, and of his means of payment. The judge is then to make such an order as to execution as shall be fair to all the creditors. If this power be given, the Committee recommend the abolition of imprisonment for debt. We sincerely trust the recommendation of the Committee will not be followed. The fear of imprisonment itself is the one last deterrent influence which creditors have to trust to. It is the judge's place to see that only dishonest debtors receive this punishment. An order for imprisonment is now only made when it is shown that debtor has means to pay and will not. Where is the injustice? The theory of those who advocate the total abolition of imprisonment for debt is that with that power in their hands tradesmen give credit without sufficient caution or inquiry. Suppose this is so, what justification can that possibly be for a man who owes a debt, can pay it, and will not?

SEPTEMBER 15, 1923

THE CHEMIST AND DRUGGIST  
SUPPLEMENT

1923.

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THE MODERN METHOD of developing a normal and healthy figure by enabling the body to completely assimilate the nourishment contained in food.

**SCIENTIFIC—SAFE—SURE**

THIS preparation, for which a steady demand has existed for many years, is now being EXTENSIVELY ADVERTISED in the Daily Press as well as in the leading magazines and periodicals. PHARMACISTS are urged to consider the advisability of holding a supply in order to meet the demand.

**ORDER TO-DAY FROM YOUR WHOLESALER.**

*Sales guaranteed by :*

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## PROFITS on PROPRIETARIES.

# “QUINPHOS”

The Great Tonic.

### BONUS ORDER No. 1

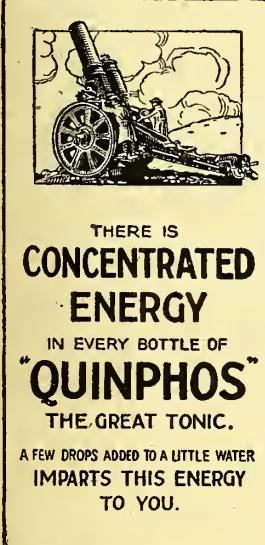
			<i>Sells for</i>
			s. d.
1 doz.	1/3 “QUINPHOS”	11 6	15 0
½ "	3/-	13 9	18 0
¼ "	1/3	Bonus	3 9
		£1 5 3	£1 16 9
	5% 1 month	1 3	
		£1 4 0	

**Outlay 24/- Profit 12/9**

*Advertising Matter for Window Display included.*

Sole Makers—

**THOMPSON & CAPPER, Ltd.**  
Manesty Buildings, College Lane, LIVERPOOL.



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 Stearns' Headache Wafers  
 Tr. Gentian - Pil. Bleaud  
 Fl. Ext. Camphor  
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 Diastase  
 Thyroid Granules  
 Acid Succinic  
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**WANT BOOK**  
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 Dist. Ext. Witch Hazel  
 Lg. Paraffin  
 Pancreatin  
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All of These—and  
upwards of 5,000  
other lines**

When you look in your "Want Book," think of Frederick Stearns & Co., and our 68 years in manufacturing quality pharmaceuticals, digestive ferments, packed goods, toilet preparations, perfumery, essences—a comprehensive line of nearly 5,000 products.

You can always make up a sufficient indent for Stearns goods. If the "Want Book" calls for some of the Stearns Specialities, such as Stearns' Headache Wafers (Shac), Kasagra, Stearns' Tonic (Wine), for example—no need to wait until you require a complete assort-

ment of our lines. Your indent can be made large enough for a bill of lading by including staple items for the dispensing department.

QUALITY COURTESY SATISFACTION

PROMPT SERVICE

**Frederick Stearns & Company**  
*Manufacturing Chemists, Detroit, Michigan, U.S.A.*

Branch Laboratories: Windsor, Ont., Canada, and Sydney, Australia  
 Branch Offices: New York, San Francisco, Calcutta, Cape Town



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## A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopoeia.

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Samples from Head Office, Thomas Street, DUBLIN, or London Office, 74 Great Tower Street, LONDON, E.C. 3.

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We also supply

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WHOLESALE ONLY.

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SHOULD STOCK

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THE GOLD MEDAL HEALTH DRINK,

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### BEECHAM'S PILLS:

1s. 3d. size	...	10s. 6d. per doz. net.
3s. 0d. "	...	26s. 6d. "
5s. 0d. (new size ...	...	50s. 0d. "

contains double the quantity of 3s. box

Minimum quantity £5 value.

Packages Free.

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We often take back used Cash Registers when customers are installing larger or more up-to-date machines. These National Cash Registers

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5 c.c. (100 units or 10 doses)  
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**35/- each.**

Subject to a distributor's discount of 15%.

Full particulars and literature will be sent on request.

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A complete set of apparatus and reagents for the estimation of Blood Sugar by MacLean's method is issued by the manufacturers of "A.B." Brand Insulin. Included with each set is a booklet giving full description and explanation of the method and table for the calculation of results.

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**White, Yellow, Amber,  
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Pharmaceutical and  
Veterinary purposes**

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PARAFFIN B.P.  
TOILET PARAFFIN  
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OF PURITY  
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LIQUID  
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Colourless, Tasteless, Odourless.  
All Specific Gravities.

**PETROLEUM  
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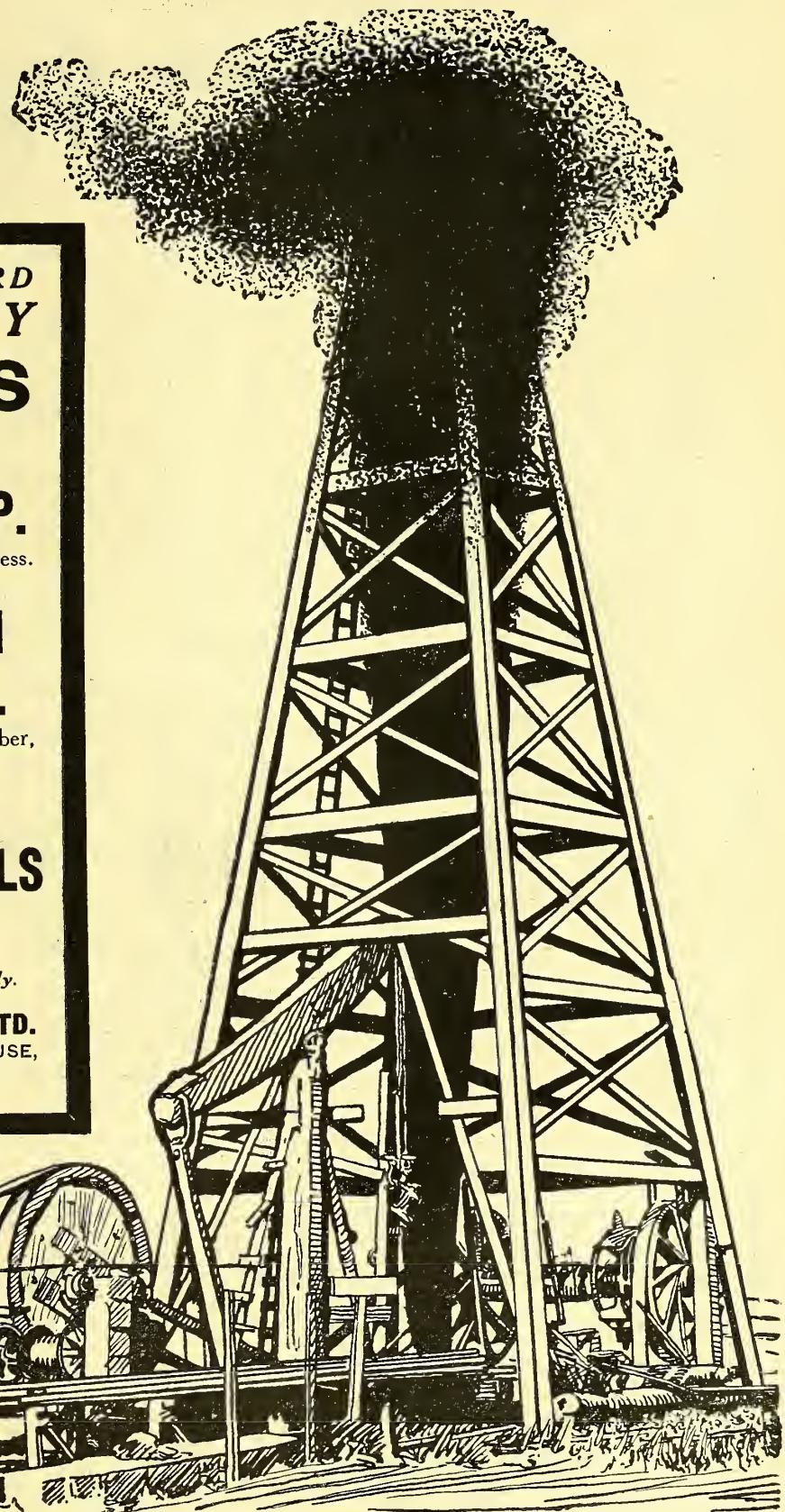
White, Lemon, Yellow, Amber,  
Red, Green.

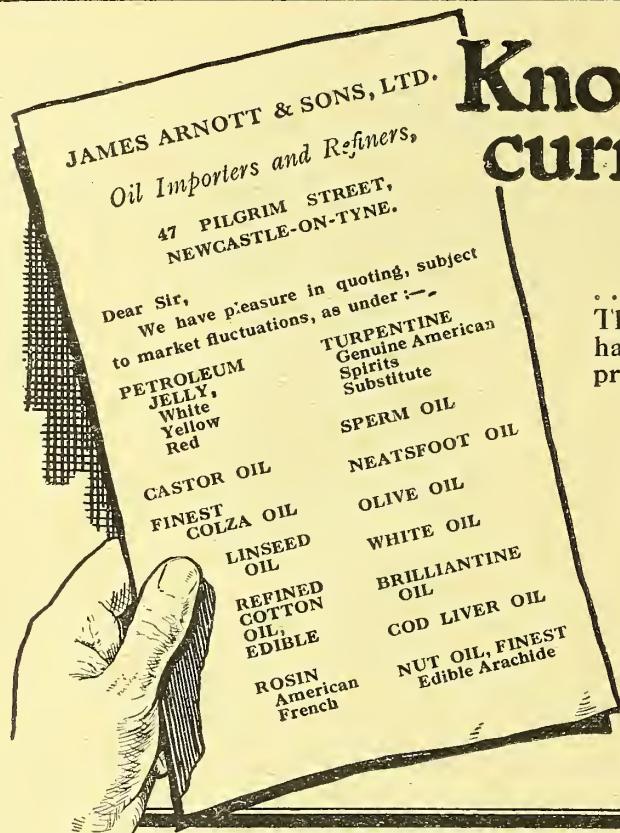
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Yellow, Green, Red for  
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Gough, Kidston & Co.

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**PRICE LISTS CIRCULARS COUNTER BILLS HAND BILLS OF EVERY DESCRIPTION**

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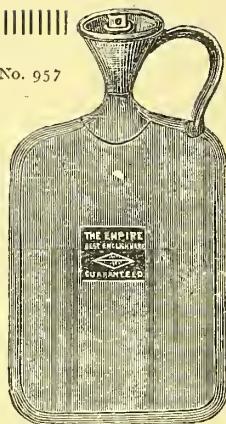
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**THOMAS WAIDE & SONS**  
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**THE CHEMISTS' PRINTERS LEEDS**

No. 957



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*Further Reductions in the Prices of the Grey Rubber Bottles*

CHEMISTS who have built up a reputation for reliable Hot Water Bottles continue to order our well-known "EMPIRE" brand of these goods. Do not risk trying an unknown make.

There are plenty of light-weight Bottles on the market, but the "heavy-weight," as ours, wear much longer.

One quality only—the best. Guaranteed for two years.

For orders of 3 dozen lots we allow 5% special discount.

	Sizes	PRICES as follows:-							
Heavy make Grey rubber	each	6×8	6×10	6×12	8×10	8×12	8×14	10×12	10×14 in.
Red rubber	"	3/-	3/2	3/4	3/6	4/-	4/4	4/6	5/3

Each bottle in a strong paper bag with directions for use.

	Sizes	COVERS							
Scarlet or grey plush ea.		6×8	6×10	6×12	8×10	8×12	8×14	10×12	10×14 in.
Velour, assorted colours (washable)	each	1/2	1/4	1/6	1/7	1/8	1/10	2/-	2/3

MUFF WARMER, red rubber, oval shape, 3½×7 in., each 2/-

**CARRIAGE PAID ON ORDERS OF £3 AND UPWARDS.**

A discount of 5% for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Write for New Price Lists of Druggists' Sundries, Toilet Requisites, Rubber Goods, Cut Sheet Rubber Appliances, etc.

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91 & 92 GREAT SAFFRON HILL,  
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The Best Possible Value in  
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LIMITED** REGISTERED TRADE MARK  
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Telephone: CITY 6843

**RUBBER** WATER BOTTLES  
1923 Manufacture.

MOULDED NECKS and specially strengthened reinforced seams.  
DELIVERIES immediately of all sizes from stock.

ALL GOODS branded with registered trade mark and full direction tab.

**HOOPER & CO.**  
**HOT WATER**  
**BOTTLES**

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TELEphones: Regent 8066 (Three lines).

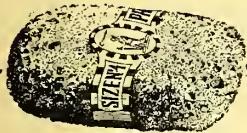
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# Softness & Flexibility

Awarded the Certificate of the Institute of Hygiene.

Retail maintained price, 6/11. Entirely British in every particular. One size only to stock—the most convenient—15" x 9"—quick turnover assured.



The "CRUSADER"  
PURE RED  
RUBBER SPONGE

Another "CRUSADER" Triumph! Not to be confused with cheap imported sponges. The "CRUSADER" is made in 4 sizes. Retail Price.

- No. 1. 4½" x 3" x 1¾" 0/11
- No. 2. 5" x 3" x 2" . 1/8
- No. 3. 5½" x 3½" x 2½" 2/4½
- No. 4. 7" x 4" x 2½" . 3/6

Write for terms and sample.

HERE is a *real* selling point—not of words but of illustrative action: take the "Crusader" and hold it—squeeze it up roughly in the hand, then let go . . . immediately it springs back to its original shape, leaving not a trace of a wrinkle. That is the kind of thing to convince a customer of the bottle's toughness, durability and softness—even without the guarantee of fair wear or a new bottle!

The general Press advertising now commencing is broadcasting all such "Crusader" advantages; it will send customers to you, when the "Crusader" will almost sell itself from sheer outstanding excellence both in design and serviceableness. There is only one size to stock—quick turnover is assured; the trade terms are attractively liberal, and no price cutting is permitted; as well as being an easy selling line, the "Crusader" is a highly profitable one.

A postcard will bring a sample bottle for your inspection, and full details of the generous trade proposition.

*The*  
**"Crusader"**  
**RUBBER HOT WATER BOTTLE**  
**The Crusader Rubber Co. Ltd.**  
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FOR THE  
**Coming Season**

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DRESSING CASES  
SCENT SPRAYS  
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**When going  
on holidays**

impress on your customers  
the advantages of taking  
with them

**NORVIC**  
(REGD.)

**Crêpe Bandages**

They prevent as well as  
cure varicose veins and  
are hygienic and practi-  
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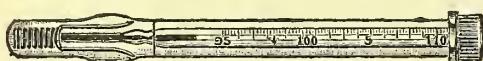
Recommended by doctors  
and nurses everywhere.

Sole Manufacturers: GROUT & CO., Ltd., Great Yarmouth  
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**A. C. COSSOR & SON**

Established 1859.

High Class  
**Clinical Thermometers**



PATENT



**THE ACCOSON ASEPTIC CLINICAL.**

The Thermometer is sterilised each time it is placed in the case, and the markings on the tube are not defaced. Any 4" clinical will fit the case.

Prices on application or can be obtained from all Wholesale Houses. ORIGINAL PATENTEE OF EASY SET CLINICAL THERMOMETERS.

Contractors to all Government Departments.

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**THE "JARASO"**

Personal  
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British Patent No. 23493/1910

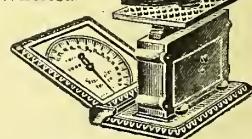
Weighs from 1 lb. to 20 stone.  
The weight is reflected automatically in the mirror.

SIZE 11 x 7½ x 8 inches.  
WEIGHT 19 lbs.

RETAIL PRICE REDUCED TO

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Liberal terms to Wholesale  
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in Great Britain,  
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Colonies only.

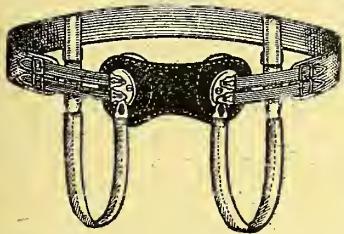


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**ALBERT C. SHOPPEE, LTD.**  
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Belmont Street, Chalk Farm, LONDON, N.W.1

## ABDOMINAL BELTS



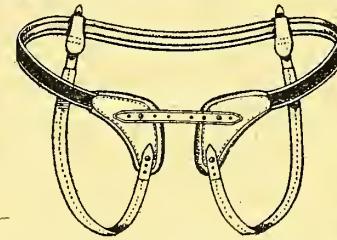
Telegraphic Address—BELTRUSS,  
TWICKENHAM.  
Fig. 601. Inguinal Elastic Truss.

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SURGICAL SPRING AND  
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SEAMED AND SEAMLESS  
ELASTIC HOSIERY.  
ABDOMINAL SUPPORTING and  
POST OPERATION BELTS.  
SURGICAL CORSETS.  
SUSPENSORY BANDAGES.

Telephone—RICHMOND 1557.

Fig. 641. Peaked Head Scrotal.



Makers to the Trade of every description of English, French and American Truss Springs.  
Sole Agents for the United Kingdom of Great Britain, Ireland and The British Dominions  
of the Celebrated

Fig. 19. Kidney Belt.

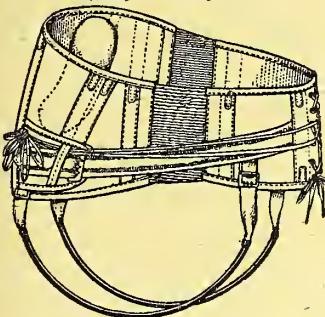
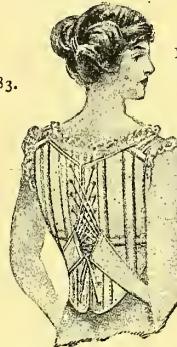
Crêpe Velpeau  
Bandages.

Fig. 583.

Richmond  
Shoulder  
Brace.

THE  
R. H. HEWARD Co.,  
Crown Road Works,  
TWICKENHAM.

Contractors to H.M. Government.

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## ELASTIC HOSIERY

## CHEMISTS SUNDRIES LIMITED

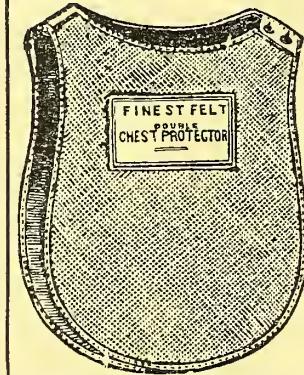
15. CHAPEL ST., MANCHESTER

## ENEMAS

Guaranteed Excellent Quality

Boxed complete with Vaginal Pipe and Shield.

1 doz. ....	17/6	doz. post paid
3 doz. lots .....	17/-	" "



WE GUARANTEE  
EVERYTHING WE  
SELL.

Chest Protectors, Abdominal Belts, Suspensory Bandages, Finger Stalls, Magnetic Belts, Wrist Straps, etc.

Actual Makers—  
A. B. FROST & CO.  
BEESTON, Notts.

Wholesale only.

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CASTLE GATE,  
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INVENTORS  
OF  
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ELASTIC  
HOSIERY.

SURGICAL APPLIANCE  
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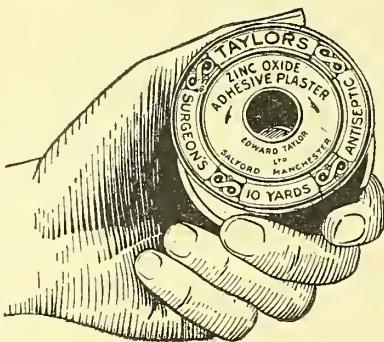
## Specialities :

Abdominal Belts,  
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Suspensory Bandages,  
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Elastic Web Bandages,  
and Druggists' Sundries.

WRITE FOR PRICE LIST.

ESTABLISHED 1833.

TELEGRAMS: "APPLIANCE NOTTINGHAM."



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WHEN ORDERING  
*Medical and Surgical  
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When better Plasters are made

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(AND COVERS).

BEST BRITISH MAKE.  
(Grey and Red Rubber).

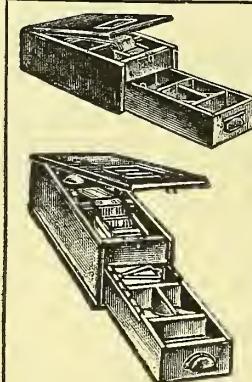
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ALL KIND OF SURGICAL  
RUBBER GOODS: Enemas,  
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JAMES TOMPKINS, Ltd.

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ESTABLISHED 46 YEARS.



THE "LITTLE PRINCE" TILL.  
Well-seasoned hardwood, Mahogany polished.  
Size over all, 16×8½×6 ins. each 39/6  
Till Coffs, 2½ ins. wide, 5/- dozen extra.

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Solid Mahogany, highly polished. Check action  
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Alarm Bell. Spring Clip. Size over all,  
18×9×7½ ins. Complete, packed  
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Can also be supplied in solid Oak at same price  
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ABSORBENT, PLAIN and UNBLEACHED  
COTTON WOOLS, BANDAGES, GAUZE  
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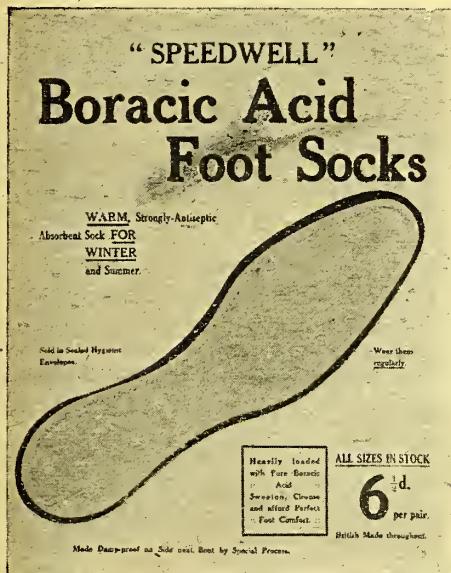
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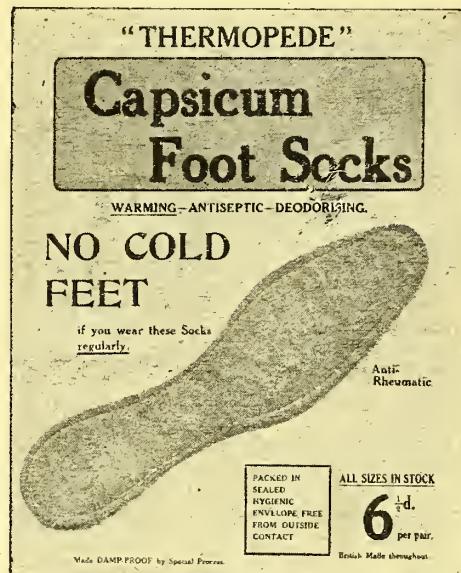
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Three dozen Rolls	... 7/- net.
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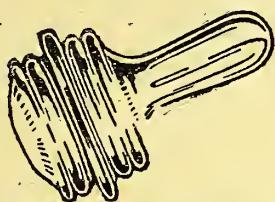
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The square mark engraved on lens front locates the Mercury column immediately.  
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are now sold in glass tubes, encased in smart, clean-looking "safety-first" cartons. They are retailed at 2d. each, made in 25 popular shades and colours, and are extensively advertised in the right publications.

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**What  
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An **ideal** **wrapping** for Soap, Drugs, Tablets, Bath Crystals, Perfumery, Surgical Dressings, Sponges, Articles of Toilet, etc., etc.

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**OUR DEVELOPING & PRINTING  
DELIVERIES are still TO TIME  
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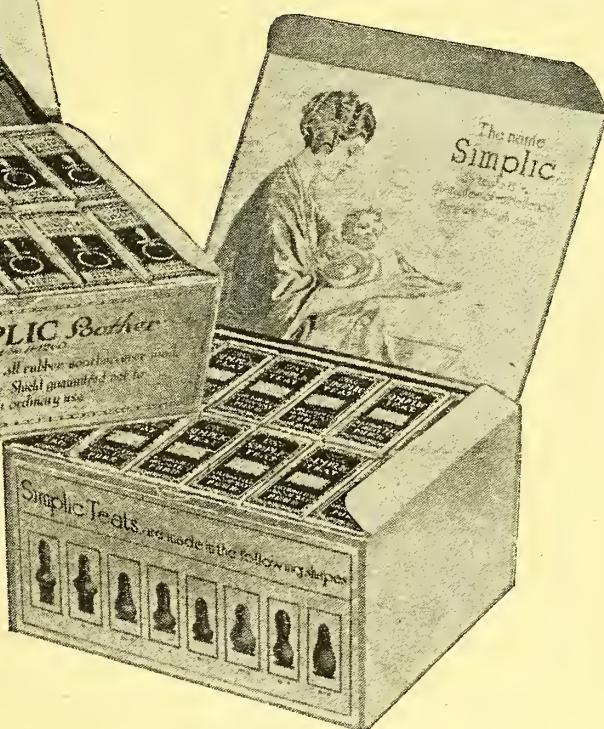
From Amateurs' Negatives for the Dealer. Finest Results. Reasonable Prices. Ask for List. Are you missing this business? It is really profitable.

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WELL PACKED IN  
BOXES OF 2 DOZEN.



WELL PACKED IN  
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Made of purest  
India Rubber.

No taste or smell.

Practically indestructible.  
The most perfectly made  
all-rubber soother ever  
offered for sale.

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In 8 different patterns.

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IN BOXES OF 3 DOZEN.

Ask your Wholesaler for "Simplic" REGD.



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in 10-oz., 20-oz. and 36-oz. tins  
at 2/-, 4/- and 7/-

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**There is no other channel of supply open to the public.**

You are certain to be asked for Trufood, and should order at least a minimum supply to meet enquiries. A steady public press campaign, backed by circularisation and calls upon the Medical Practitioners and Nurses, is creating an ever-increasing demand.

We count upon you to support our efforts to foster goodwill between yourselves and the buying public.

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*The Creameries, Wrenbury, Cheshire*

London Offices : LEVER HOUSE, BLACKFRIARS, E.C.4

# TRUFOOD

# PHOSFERINE

## New Window Display Conditions.

Monthly Account.Carriage Paid.

For a small Central Window Display of not less than 14 days and an order for £5 worth of Phosferine we allow a bonus of 10/6; on a £2 10 0 order 5/3.

This shows a net profit on the transaction to the Chemist of 35%, besides attracting the passer-by to the window and considerably augmenting sales generally.

Should a £5 or £2 10 0 parcel not be required, any smaller quantity will be forwarded carriage paid, and can, if desired, be regarded as part of the £5 or £2 10 0 order. On completion of the order and a notification that the display is in progress the bonus will be allowed.

The above conditions apply only to the United Kingdom.

**EXAMPLE.**

	COST	SELLS FOR
3½ dozen 1/3 size at 12/- net	£2 2 0	£2 12 6
2    "    3/-    "    at 30/-    "	3 0 0	3 12 0
	<hr/> 5 2 0	
Less 10/6 for Window Show	10 6	
	<hr/> £4 11 6	<hr/> £6 4 6

*Showing a Net Profit of £1 13 0 on an outlay of £4 11 6.  
Window Display Material Free and Carriage Paid.*

**WHOLESALE PRICES OF PHOSFERINE.**Carriage Paid.Monthly Account.

1/3 size	... 12/- per doz. net.
3/-    "	30/-    "    "
5/-    "	48/6    "    "
12/-    "	114/-    "    "

**PROTECTED PRICES.**

Phosferine and all of our Proprietary Medicines are supplied on the condition that they are not retailed in the United Kingdom under the following prices—viz., 1/3, 3/-, 5/-, and 12/-.

**ASHTON & PARSONS, Ltd., Ludgate Hill, LONDON, E.C. 4.**

Telephone No.: CITY 8733. Telegraphic Address: "PHOSFERINE, CENT, LONDON."

IMPORTANT.—Every care is used in corking and packing Phosferine, but occasionally a leaky bottle will pass undetected. Any leaky or faulty bottle should be returned to Ashton & Parsons, Ltd., Ludgate Hill, London, E.C. 4, when a fresh supply will be sent and postage refunded.

# Natural Mineral Waters.

- ¶ We are Agents for all the leading Natural Mineral Waters, importing them regularly throughout the Season from all parts of the World, when it is possible.
- ¶ Should you be asked for a Water with which you are not conversant, please apply to us, as we may have it in stock; or we could procure at short notice, if obtainable.
- ¶ Chemists should write for our special list of net prices. Most of the well-known Waters are on the P.A.T.A. protected list, and show the retailer good profits. Goods delivered direct to Clients' own Customers if desired.

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AEsculap  
Aix-les-Bains  
Apenta  
Apollinaris  
Bilin  
Bourboule, La  
Carlsbad  
Carlsbad Sprudel-Salt  
Chatel Guyon  
Cheltenham Spa  
Condal  
Contrexéville  
Coulsworthy  
Ems Water  
Ems Salt and Pastilles  
Evian-Cachat  
Fachingen  
Giesshubler (Mattoni)  
Hunyadi János  
Insalus  
Kronenquelle  
Leamington Spa  
Levico  
Malvern (Alpha)



Mont Dore  
Montmirail  
Montreux  
Perrier  
Plombières  
Pluto  
Poland  
Purgos  
Royat  
Rubinat  
St. Galmier  
Selters  
Sulis  
Vals  
Vichy-Célestins  
Vichy Hopital  
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Telephone : Bank 4528. Telegrams : " CELESTINS, LIVERPOOL."

BRISTOL : Bath Bridge

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# THE CHEMIST AND DRUGGIST

## SUPPLEMENT

42 CANNON ST.  
LONDON E.C.4

SEPTEMBER 15, 1923

*This Supplement is inserted in every copy of The Chemist & Druggist.*

## THE SUPPLY OF SUPPLEMENTS.

The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that, in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case

*Addressed Wrappers Stamped One Penny*

must be sent. Loose stamps will not be accepted.

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LATER THAN

ALL ADVERTISEMENTS INTENDED FOR  
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HAMMERSMITH (Near).—Cash Retail Business; returns about £3,000 per annum; net profit between £750 and £800; up shop; held on lease at a rental of £55 per ann.; valuation terms entertained; part payment to suitable successor.

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LONDON (Central).—Attractive well-fitted Pharmacy, situate in one of the leading thoroughfares; returns exceed £100 weekly; valuable stock and fixtures; further particulars be furnished to intending investors with capital at command.

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2.—LONDON, N.—Good Retail Business, taking £1,500 per annum; well-stocked and fitted; little opposition; two good living rooms; seven years' lease, with rent, £52 per annum; inclusive price, £950.

3.—FOREST GATE.—Excellently fitted and well stocked up-to-date Pharmacy, situate in a central position; lease 20 years at £450 per annum; premises consist of shop and convenient dwelling accommodation; good scope. Full particulars on application.

4.—LIVERPOOL.—Good Retail Cash Business, established 40 years; average turnover £1,600 per annum; N.H.L., Kodak and Rexall Agency; tenancy quarterly; rent £40 16s.; house partly sub-let at £20; low price for quick sale; fullest particulars on application.

5.—WOLVERHAMPTON.—Small Cash Retail Business established 3 years. Returns, £14 per week. Premises, which can be had on lease for 3 years at £50, with option for further 2 years at £55, consist of lock-up corner shop, and living accommodation, which are sub-let at £23 18s. p.a. This accommodation becomes vacant in September. Reason for disposal, lack of capital for development. Price for goodwill and fittings, £75. Stock at valuation.

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SALE ROOMS : 62A ALDERSGATE STREET, LONDON, E.C.2  
VALUABLE STOCK OF  
HIGH-CLASS TOILET REQUISITES,  
known as

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removed from Woodstock Street, W., including 500 dozen Toilets, 300 dozen Face Powder, 20 dozen Rouge in fine enamel and ormolu boxes, 30 dozen Soaps, 10 dozen Hair Wash, moss in cut and fancy bottles, 30 dozen Lanoline in fancy jars, dozen Tooth Powder, 10 dozen bottles Nail Polish in liquid, handsome Cabinets of "Hera" Perfumery and Toilet Requisites etc., also 400 gross French Toilet Soaps, which will be sold Auction by

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6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to the Office, and forwarded on payment of an additional charge of 1/-

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**SOUTH.**—Young Pharmacist wishes to purchase small Pharmacy capable of considerable increase; must bear even investigation; neglected business or partnership with view to early succession considered. State full particulars and price, 188/18, Office of this Paper.

**WANTED**, soon as possible, good-class Chemist's Business, large or small; southern half of England preferred; a good reward will be paid for a really genuine and suitable business, or generous reward for information (if acted upon) of suitable premises for establishment of new business. Fullest details, in confidence, "Pharmakos," 31/994, Office of this Paper.

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## FOR SALE.

**OLID** Mahogany Dispensing Screen, 5 ft. x 1 ft. 8 in.; ditto Desk, 2 ft. x 1 ft. 10 in.; ditto Top Counter Right Angle, ft. x 11 ft., containing four large drawers, one cash drawer; see Glass Cases, 6 ft. x 3 ft. 10 in., 2 ft. 6 in. x 2 ft. 3 in., ft. x 2 ft. 3 in.; Bent-glass Case, 2 ft. x 6 in. x 17 in. x 8 in. pp; Nest of 60 Drawers, 12 ft. x 4 ft. with six lockers; Nest 22 Drawers; Fittings and 35 Shelves; complete set of Shop fittings. P.C.B. 72/30, Office of this Paper.

**WHAT Offers?**—Platform Scales, perfect working order; Square Cistern, to hold 400 gallons of oil, manhole and pp, riveted all sides; ½ cwt. Ginger Rad. Cochin; 1 cwt. Ginger Rad. African; 2 lbs. Cusso Pdr.; 7 lbs. Ground Madda. 181/39, Office of this Paper.

CWT. Soda Salicyl. B.P. xts.; 2s. 3d. per lb.; 1 cwt. Aspirin, B.P., 5s. per lb.; carriage paid on 7 lbs.; cash with order. Kemco, Ltd., 36 Trinity Street, Huddersfield.

## BUSINESSES FOR DISPOSAL.

for 50 words or less; 6d. for every additional 10 words or less, prepaid.

ADVERTISER may if preferred have replies addressed to this office, and forwarded on payment of an additional charge of 1/-.

**IRMINGHAM**.—Old-established Family and Prescribing; industrial populous neighbourhood; Cash Retail, Small; od corner premises; Vendor's own valuable Proprietaries; never retiring; minimum £250 net; good stock. 188/17, Office of this Paper.

**LANCASHIRE**.—Chemist's, with N.H.I. and Surgical Fitting Business; good stock; spotless Pharmacy; beautifully fitted; good opening for Chemist with knowledge of Fitting Trusses and Belts and wife to fit ladies; business property; good house, bath, electric light; price, business property, £2,000. Address, 65 Rochdale Road, Bury, Lancs.

**LEEDS**.—Working-class district; well-stocked Drug and Herbal Business, now making good living; easy rent; splendid scope for N.H.I.; owner leaving city; convincing books; will stand any investigation; £250 secures. Brearley, 125 York Street, Leeds.

**LIVERPOOL DISTRICT**.—Sound Cash Business in densely populated area; Light Retail and Photo.; house attached; good opening for N.H.I.; average turnover for last three years nearly £1,800; excellent profits; rent £35; rates £19; price £1,400, or near offer. "Y." 187/30, Office of this Paper.

**LONDON**, S.W. District.—Old-established Business; Family and good-class Dispensing; in busy shopping centre on main London road; Kodak Agency; returns last two years £2,382 and £2,455; district rapidly growing; 19 years' lease unexpired; option to purchase freehold residence above; exceptional opportunity. 181/37, Office of this Paper.

**LONDON**.—Old-established Pharmacy; genuine bargain; returns average about £30 per week; profit average nearly one-third; good house; long lease, low rent; great scope for increase; sound reasons for disposal. 187/21, Office of this Paper.

**LONDON**.—Manufacturing Chemists; limited company; established 40 years; extensive connection throughout U.K.; well-fitted premises, newly decorated; low rental; lease 14 years; main road position; stock, furniture, fittings, lease, etc., £1,300; immediate possession can be had. Apply P.C.B. 72/39, Office of this Paper.

**MANCHESTER** and Suburbs.—Choice of several excellent Drug Stores, now doing good turnover and capable of great expansion under qualified; exceptional opening for N.H.I., Optics, Photography, etc.; immediate possession; splendid living accommodation in each case; lease granted, or property can be purchased. Also splendid Partnership proposition, Leeds; £600 required. Brierley, Chemists' Valuer, 135 Queen Street, Newton Heath, Manchester.

**MIDLANDS**.—Small busy town; good going little Business for Sale; average takings last three years £2,200; price £1,500; premises, consisting of two shops and good warehouse and living accommodation, may be acquired (£1,500), or rent arranged. Apply "Ignatius," 185/14, Office of this Paper.

**MIDLANDS**.—Centre of city; Mixed Retail and Dispensing; Photographics repeatedly asked for, but not obtainable within area, which includes a station; added to present average returns (about £700); nice business could be made of it; price about £400; offer considered. Apply 187/14, Office of this Paper.

**NORTH LONDON** (Upper Holloway).—An old-established Chemist's Business to be disposed of, in crowded neighbourhood. Capital three-storey shop and dwelling house, five good rooms besides stock room, scullery and garden. Same hands twenty-three years. Minimum takings £20 per week. Books shown. Goodwill and fittings, etc., only £450! Stock at valuation. Lease having expired head lease must be purchased. 40 years' unexpired ground rent, £6; perfect repair throughout. New roof; redecorated inside and out. Price for shop and dwelling house only, £800. Chance of a lifetime! Arrangements might be made for a good mortgage, repayable easy instalments. Sole Agents, Batty & Stevens, Surveyors, 269 Archway Road, Highgate, N.6.

**HEFFIELD** (near).—Sound Cash Business in main thoroughfare, with living accommodation; single-fronted; present returns £35 to £40 weekly; Medicated Wine Licence; well-fitted and stocked; good reason for disposal; fittings and goodwill £400; stock at valuation; banker's reference required. 187/31, Office of this Paper.

**SOUTH COAST**.—Chemist and Druggist; established 43 years; good scope N.H.I., Shipping, Photographic; no qualified opposition; lock-up shop, or with living accommodation; stock valued at £500; no reasonable offer refused; by order of executor. Write "Exor," 183/38, Office of this Paper.

**WEST** of England.—An exceptional opportunity of purchasing a well-established Business in main street of large town, returning £1,200; profit about £350 net; rent £75; long lease; shop double-fronted; electric light; good living accommodation; price for quick sale £650, the value of stock and fixtures. 188/15, Office of this Paper.

**DRUG**, Drysalters, Oil and Colour Business for Sale; main road; one of the best positions in Birmingham; doing good retail cash trade; good reasons for selling, and is a sound business. 112 Hockley Hill, Birmingham.

**F**OR Sale, Surgical and Orthopaedic Business in North of England city; approximate population within five miles 400,000; no other similar business within 10 miles; rent cheap; in main thoroughfare; could adopt Chemist Business in part premises; good connection; price reasonable for early purchaser; ill-health reason for disposal. Apply in first instance to 164/9, Office of this Paper.

**S**PLENDID opening for Live Chemist.—For Sale, Photographic Dealer's Business, fitted with up-to-date dark rooms and the latest plant for handling D. and P.; very large turnover; Kodak agency; large, modern double-fronted shop (freehold); half shop would make capital drug stores; finest position on S.E. Coast; or would entertain partnership; only genuine enquiries, please. Particulars, W. H. S., 34 Marine Terrace, Margate.

**£500.**—DRUG Store, bordering on city; established over 30 years; good opportunity for qualified man; five good rooms. P.C.B. 71/21, Office of this Paper.

## SITUATIONS OPEN.

### [HOME.]

### RETAIL.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

**B**RIGHAM.—Qualified Junior Assistant required; smart appearance; must have had good Dispensing and Counter experience; good worker essential. Please send in first letter full particulars of experience, copies of references, salary (outdoors), etc. J. J. Loughran, 81 St. James's Street, Brighton.

**B**RIGHAM.—Qualified Assistant, about 25, required for holiday relief, Dispensing and Counter, on or about September 17. Full particulars to "Statim," 3 Walsingham House, Hove.

**D**EVON.—Qualified lady (Minor) at once for Dispensing business. Give full particulars in first letter; easy hours; no extra duty. Apply 188/14, Office of this Paper.

### EXETER DISPENSARY, EXETER.

**A**PPLICANTS are invited for the post of Temporary Assistant Dispenser for a period expected to be at least 8 months, but subject to the usual month's notice on either side. Applicants must be either Registered Pharmacists, or possess the Certificate of the Society of Apothecaries. Applications must be addressed to the "Chairman of the Committee," and must be received by September 29. Give full particulars of age, experience, salary required, etc., and two recent testimonials.

ALAN H. WARE,  
Secretary.

**E**SSEX Coast.—Wanted immediately, young qualified Assistant holding F.S.M.C. or D.B.O.A. diploma; preference given to one possessing the necessary apparatus to start an Optical department; a liberal commission will be paid; the salary asked should therefore be moderate; permanent progressive post to right man. Full particulars and photo to 188/19, Office of this Paper.

**F**OLKESTONE.—Wanted, competent Assistant, male, age 25 to 30, well experienced in good-class Dispensing and Retail. Please give full particulars as to experience, references and salary required to Mr. Steel, Hall & King, West Cliff Pharmacy, Folkestone.

### JESSOP HOSPITAL FOR WOMEN, SHEFFIELD.

**P**HARMACIST required; lady preferred; must be M.P.S.; previous Hospital experience desirable; salary £150 per annum, with dinner and tea when on duty. Full particulars may be obtained on application to

W. H. BOOTH,

Superintendent and Secretary.

Third class return railway fare and 10s. for expenses will be paid to candidates coming from a distance.

**L**ONDON.—First-class unqualified Assistant required for good-class business; good Counter and Dispensing experience essential. 184/202, Office of this Paper.

**L**ONDON.—Good-class Manager required for a high-class business situate in Central London; must be qualified, an expert Counterwoman, and of irreproachable character. State age whether married, date at liberty, and salary required. 184/2 Office of this Paper.

**L**ONDON.—Junior Assistant wanted, unqualified; must be accustomed to good-class Retail and Dispensing and have good references. Apply, stating age, height, experience, salary required (outdoors), and when disengaged, "C. B.," Greenis & Co., 20 New Street, Dorset Square, N.W.1.

**L**ONDON, N.—Assistant, unqualified, accurate Dispenser interested in Photography, good Counterwoman; beginning October; unmarried; Northerner preferred, not essential. Apply, age, salary, photograph, H. G. Alderson, Chemist-Optician, Albion Parade, Stoke Newington, N.16.

**L**ONDON, S.W.—Wanted, Dispenser, male, about 30 years of age, with minor qualification; hours of work approximately 8.45 a.m. to 6.15 p.m., Saturday till 1 p.m.; with 5 years' qualification £5, under 5 years' qualification £4 15s. Kindly state full particulars of experience; personal call will be necessary. Write first instance, Box 387, Sells, Fleet Street, E.C.4.

**L**ONDON, N.W.—Smart Assistant required, age 25-30, to develop Photographics in a good-class business; must be good Window-dresser and tactful Salesman. Please give full particulars in first letter, stating salary (outdoors). Apply to 184/6, Office of this Paper.

**L**ONDON.—Qualified man; experienced all round; energetic quick and reliable; permanency; outdoors; scope for capable man. Apply in writing, first stating age, height, experience, salary required, etc., Coffman's Pharmacy, 6 Bloomsbury Street, W.C.

**L**ONDON, N.W.6.—Unqualified Assistant (outdoor), lady or gentleman, for good-class Family Dispensing and Photographic business in which Developing and Printing is done on the premises. State usual particulars, 186/36, Office of this Paper.

**L**ONDON Suburb.—Qualified Manager for small Family Retail; been neglected and capable of increase; comfortable berth to good man; permanency; salary £3 5s and commission. Apply, giving experience, age, references, etc., 186/23, Office of this Paper.

**L**ONDON (Poplar).—Qualified Manager required for working-class business; steady and reliable man of good character interest in the profits offered. "Poplar," 187/26, Office of this Paper.

**M**ANCHESTER DISTRICT.—Wanted, a good, unqualified Junior Assistant, about 24 years; well up N.H.I. Dispensing; good Counterwoman; accustomed to good all-round trade. State age, salary (outdoors), and usual references. Apply 185/19, Office of this Paper.

**M**ANCHESTER.—Wanted, Junior Assistant; one just finished apprenticeship preferred. Bates, Brookes's Bar, Manchester.

**N**EWPORT (Mon.).—Competent male Assistant wanted for October 1st, or before; must be quick and accurate Dispenser, smart Counterwoman, and with a knowledge of Photographics. Full particulars experience and references first letter Badgett, Chemist.

**N**EWPORT.—Wanted, at once, Assistant, experienced in quick Counter trade, with some knowledge of modern Salesmanship; hours 8.30-7 p.m.; usual half-day; no Sunday or holiday duty. State salary required. Clarke, Chemist, Newport.

### NORTHAMPTON GENERAL HOSPITAL.

**W**ANTED, an Assistant Dispenser (qualified); commencing salary £100, with luncheon. Apply, with copies of testimonials, stating age, also when available, to

C. S. RISBEE,  
Secretary-Superintendent.

**Y**ORKSHIRE.—Qualified Chemist wanted. State salary, age and when disengaged to 186/21, Office of this Paper.

**A**LADY Assistant, who is a reliable Dispenser, good Saleswoman, and can dress an up-to-date window, will be required for a modern Pharmacy at Kingston-on-Thames on October 1. Apply, giving full particulars, to "B. S." 185/2, Office of this Paper.

**A** YOUNG, qualified Manager required for S. Wales; mix A trade; Photographic, etc.; must have best references. State when disengaged and for interview; photo; £3 10s. and commission. 187/25, Office of this Paper.

**A**SISTANT, male, unqualified, required at once; person interview preferred. A. T. Honiatt & Son, 35 Junction Road, Highgate, N.19.

**A**SISTANT, unqualified (lady or gentleman) required for Pharmacy in a country town; Welsh-speaking preferred, but not essential. Full particulars, salary required (outdoors), and photo (returned) in first letter. "M.Ph.S." 184/3, Office of this Paper.

**A**SISTANT, unqualified, Male, age not over 30, required for S.W. London; must have had good general experience, specially N.H.I. Send references and photo, if possible. Salary, £2 10s. weekly. 185/16, Office of this Paper.

**A**SISTANT, with good experience; unqualified; must be an accurate Dispenser and good Salesman; not under 27; busy hours; outdoors. Please give full particulars in first letter. 84/1, Office of this Paper.

**C**APABLE, energetic Assistant required, age 26-28; experienced Dispenser and smart Salesman; gentlemen used to high-class business only considered; salary and progressive commission; permanency for suitable man; arrange interview first. Long & Co., 139 High Street, Guildford.

**C**HEMIST-OPTICIAN.—Locum wanted from October 8 to November 7; must be experienced and competent Optician; reference given to Chemist-Optician. Give age, experience, references, and photo to Waller & Riley, Ltd., Bolton.

**C**OMPETENT Manager required for Business in good-class district. Apply, with full particulars and photograph, to 1/996, Office of this Paper.

**J**UNIOR, lady or gentleman, young, neat, and accurate. State age, experience, references, salary. Willis, Pharmacist, roadway, Cardiff.

**J**UNIOR qualified Assistant wanted, used to Photographic, Optics, and Window-dressing. Apply by letter, stating experience, to Anderson, Cash Chemist, Ltd., 260 Upper Tooting Road, S.W.17.

**J**UNIOR Assistant wanted immediately; lady would suit if smart and energetic; Dispensing and Counter hand essential; good-class country town business. Full particulars when disengaged, including salary (indoors), first letter. Replies not answered in three days respectfully declined. Howells, Chemist, embroke.

**J**UNIOR Assistant wanted for October 1; good appearance and address; light Retail and Dispensing business; state salary required. Letters not replied to in four days declined with thanks. Full particulars to J. A. Johnson, Pharmacist, 54 Barber Road, Crookesmoor, Sheffield.

**A**DY Dispenser (Hall) required for Branch at Radlett; good shop experience essential. Apply by letter, giving full particulars of training, experience, age, and salary required. Parke's Drug Stores, Limited, 65 Harwood Street, Chalk Farm, N.W.1.

**A**DY Dispenser (Hall) required; must be competent Counter Assistant. Apply, with full particulars and photograph, to 1/997, Office of this Paper.

**A**DY (Hall), with or without Counter experience, or gentleman (young), unqualified. State age, height, experience, salary. Clarke, 145 Stanstead Road, S.E.23.

**O**CTOBER 1st.—Junior or Improver (outdoors); good middle-class quick Retail. State salary required; send references and photo (if possible). A. Middleton & Son, Lister Gate, Nottingham.

**C**HARMACIST required as Branch Manager consequent upon expansion of business; permanency and good prospects. Apply by letter, giving usual information, Timothy White Co., d., Portsmouth.

**Q**UALIFIED Assistant wanted (male) for high Dispensing business. State salary required (outdoors) and usual particulars, enclose photograph, to H. R. Browne, 1 Cornfield Road, Stourbridge.

**Q**UALIFIED Dispenser, male, wanted; Doctor's practice; near London; abstainer; quick, accurate; Book-keeping; state experience, etc. P.C.B., 72/22, Office of this Paper.

**Q**UALIFIED Manager (married) wanted immediately for branch business, with house attached (three bedrooms). Apply, giving full particulars and when disengaged, to Hill & (Chemists), Ltd., Warrington.

**Q**UALIFIED Chemist wanted, must be young and energetic, to call on Hospitals and the Medical Profession. Apply, giving full particulars, to Chas. F. Thackray, Surgical Instrument Maker, Great George Street, Leeds.

**Q**UALIFIED Assistant wanted for few weeks; immediately. Apply, personally if possible, to T. A. Harrison, Pharmaceutical Chemist, Goodmayes, Ilford.

**Q**UALIFIED.—Smart, active Assistant for high-class Pharmacy; one having Optical experience given preference. Apply, stating salary required, full particulars, and when disengaged, 31/998, Office of this Paper.

**R**EGISTERED Chemist for small company; comfortable position; no objection to elderly. Full particulars in first letter, age, references, wage required. Donnelly, 230 Halliwell Road, Bolton.

**R**EORGANISATION of present staff makes an opening for the services of a capable, young, qualified man; candidates with good Dispensing experience and suited to high-class Counter service are invited to apply, by letter only, in the first instance, enclosing photographs and copies of testimonials; please give full particulars of experience, salary required, age, and height; the post is to be filled at once, and presents an unequalled opportunity for a man desirous of advancement. Apply, "L," 10 Chester Place, Hyde Park Square, London, W.

**S**MART, unqualified Assistant wanted; must be a quick Counterman and have thorough knowledge of the trade; Store experience essential. Apply, giving full particulars of experience, age, etc., to 31/993, Office of this Paper.

**U**NQUALIFIED Assistant required for working-class business; quick Counter trade and plenty of N.H.I. Dispensing; permanent and progressive post; Midlands. "Mid," 184/200, Office of this Paper.

**U**NQUALIFIED Assistant (outdoor); energetic, trustworthy; no Sunday duty. Applications (by letter only), stating age, height, experience, references, salary required, and when disengaged, L. J. Reade, Pharmaceutical Chemist, 17 Lichfield Street, Wolverhampton.

**U**NQUALIFIED Junior wanted soon for N.H.I., Photo and Counter; must be quick and obliging. Pinson, 15 Amhurst Parade, Stamford Hill.

**W**ANTED, young lady Assistant; permanent; qualification not essential; must be competent Dispenser; used to brisk Counter work and Photographic Sales; send full particulars of experience, age, height, salary; no testimonials; London interview; South-East Coast. 185/6, Office of this Paper.

**W**ANTED, Improver; one who has just completed his apprenticeship preferred; outdoors; usual half holiday; no Sunday duty; good-class country business. Apply, giving full particulars as to salary required, copies of recent references, to A. E. Churchyard, Harleston, Norfolk.

**W**ANTED, experienced Assistant for middle-class business; must be a live man with first-class references. Apply personally, or if by letter send full particulars, to 3, Ridgmount Street, Tottenham Court Road, W.C.1.

**W**ANTED, shortly, good Junior; must have served an apprenticeship and be a reliable Dispenser, and obliging; outdoors. Reply, stating salary required, height, etc., to "Fides," 186/34, Office of this Paper.

**Y**OUNG qualified Chemist required for new business; salary to commence 3½ guineas a week. Apply by letter to "Pharmacy," 233 Jamaica Road, Bermondsey, London.

## WHOLESALE.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

**B**ISMUTH.—Required by London firm of Manufacturing Chemists man with good experience in the manufacture of Bismuth Salts. P.C.B. 72/9, Office of this Paper.

**E**NERGETIC and forceful Traveller required by a first-class firm of Manufacturing Chemists in Lancashire, to call on Doctors and Chemists, on established ground in North and South Wales, Cheshire and Shropshire; real business-getters only entertained; good salary, commission and expenses will be paid to the right man. Applicants must state age and experience to 31/995, Office of this Paper.

**E**NERGETIC Traveller urgently required for Pharmaceutical Chemicals to visit Retail Chemists; established connection desirable. A. Newton & Co., 307 Euston Road.

**R**EPRESENTATIVE, calling on Chemists throughout Lancashire and carrying one or two other lines, wanted by Proprietary firm. Please state commissions at present held and whether the above territory is worked by car. 182/5, Office of this Paper.

**R**EPRESENTATIVES on commission, calling on Retail Chemists, required. Apply, giving particulars of ground covered, Tennyson & Co., Ltd., Toilet Roll Manufacturers, 95 Albion Street, Leeds.

**T**RAVELLERS, salary and commission basis, required to operate from Leeds, Manchester, Birmingham, Bristol, and Belfast, to push sales of American Rubber Goods—Women's and Children's Overalls, Children's Pants, Aprons, Bathing Caps, Toys, Surgical lines, etc.—of the very highest grade; first-class references and good connection with Wholesale houses, Chemists' Sundriesmen and large Stores essential. Apply, Box No. 6292, Publicity House, Bucknall Street, W.C.2.

**W**ANTED, by small firm of Manufacturing Chemists in London, East; a young man with Laboratory experience and good knowledge of Galenicals; a good opportunity for a smart man. P.C.B., 72/90, Office of this Paper.

**W**ANTED, London Representative to join another in handling an Agency for French Perfumery on mutual terms. 185/29, Office of this Paper.

**£3** PER WEEK salary, plus commission and expenses, offered for two really smart men of good character with connections amongst Chemists in Lancashire and West Riding of Yorkshire; whole time; article well advertised. 184/201, Office of this Paper.

#### [COLONIAL, INDIAN AND FOREIGN.]

**B**RITISH COLONY.—Wanted by an English firm of Chemists, an Assistant with the qualification of the Pharmaceutical Society of Great Britain; salary £350 a year, quarters, and servant allowance; two years' engagement; first-class passage out and home; applicants must not be over thirty years of age, unmarried, and of good address; preference given to one with a knowledge of Optical work. Apply 179/11, Office of this Paper.

**F**LORENCE, ITALY.—Wanted, smart Assistant of good appearance and address, chiefly for Counter work; knowledge of French or Italian preferred. Send full particulars in first letter to "A. H. M." c/o Allen & Hanburys, Bethnal Green, E.

**L**AUSANNE, Lake of Geneva, Switzerland.—Wanted for October 1 or a little later, qualified Assistant, with good knowledge of French and Continental Dispensing; smart Counter-man; not over 40; permanency; outdoors. Apply with full particulars, photo if possible (to be returned), and salary expected, to Dersiph & Co., Pharmacie Internationale, Lausanne.

**M**ALAY STATES.—Junior Assistant, Minor qualification, single, age about 25, for Malay States, required immediately; three years' agreement; salary \$300 (£25) per mensen for the first year, \$325 (£37 18s. 4d.) per mensen for second year, \$350 (£40 16s. 8d.) per mensen for third year, with second class passage out and home on agreement expiring; excellent prospects for right man; details re climate, living, etc., supplied on interview. Apply, by letter only, with copies of references (not returnable), to Dakin Bros., Ltd., 82 Middlesex Street, London, E.1.

#### Returning Photos, &c.

Advertisers in this section who receive portraits and copies of testimonials from applicants, with a stamped addressed envelope for reply, are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

#### NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensues. Strict attention to this detail will be appreciated.

#### SITUATIONS WANTED.

##### RETAIL.

##### [HOME.]

**2s.** for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to the Office, and forwarded on payment of an additional charge of 1s.

**A.A.A.**—QUALIFIED, 26, tall, single, abstainer, fine class experience in Dispensing, Window-dressing, Photography, desires position as Manager or Assistant; disengaged October 1; London or provinces; excellent references. Willcocks, 60 Gladstone Avenue, Manor Park, E.12.

**A.A.**—ASSISTANT, Senior, unqualified, married, seeks permanency; good all-round experience; able to manage 10 years each in last and present situation; abstainer. White, 8 Deben Road, Woodbridge.

**A** DISPENSER, lady; Hall Certificate; Book-keeping; N.P. experience. 188/4, Office of this Paper.

**A** DVERTISER has vacant dates as Relief; Brighton district; middle-aged; unqualified; thorough experience (London and provinces); good Photographic knowledge; or permanent "E.U." 34 Talbot Terrace, Lewes.

**A** DVERTISER seeks permanency; 21 years' all-round experience; 12½ years present situation; age 35; height 5 ft. 1 in.; married; live over premises if desired; highest "Fixture," 6 Kerrison Villas, Ealing, W.5.

**A** LADY Dispenser (Hall), experienced, disengaged, desirous of engagement, Chemist, Doctor or Institution. Miss Thornton, Graham Road, Dalston, E.8.

**A** S Locum or Manager (4 years last situation); long experience in all branches. "Pharmacist," 71 Trafalgar Road, Wallasey.

**A** S Locum; country preferred; short hours; highest references moderate. Brown, 74 West Hill, E. Putney, London.

**A** S Manager; qualified; 30; Lancashire or Yorkshire preferred; good references, experience; Photographic. 187/35, Office of this Paper.

**A** S Manager; 34; married; gentlemanly appearance; good all-round experience, private and multiple; salary £25; "Sumbul," 186/24, Office of this Paper.

**A** SSISTANT; good-class Dispenser; 10 years' experience, West End; smart Salesman and Photography; take charge London preferred; undeniable references; age 28. "Emerald," 92 Manor Street, Clapham, S.W.4.

**A** SSISTANT; unqualified; middle-age; experienced; permanency, or Locum; disengaged. Reply "Aspirin," Tremadoc Road, Clapham, S.W.

**A** SSISTANT, unqualified, Stock, Counter, Dispensing, Scribing, desires permanency. "Statim," 39 Dulwich Road, Herne Hill, S.E.

**A** SSISTANT; unqualified; 29; Counter, Dispensing, Photography, and Window-dressing; disengaged October 1; excellent references. "M.," 185/15, Office of this Paper.

**A** SSISTANT, 22, 8 years' experience, desires situation, London, E. Coast town. 182/2, Office of this Paper.

**A** SSISTANT, unregistered, seeks post, Stock or Counter; 10 years' experience (17 years West-End); good and reliable worker and Dispenser; middle-aged; moderate salary; abstainer. "Statim," 390 Clapham Road, S.W.9.

BOOK-KEEPING and Clerical Work; day or evenings. Apply "X. Y. Z." 152/22, Office of this Paper.

CHEMIST, 33, giving up business, desires position as Manager or Assistant; Nottinghamshire or Derbyshire; smarterman, Prescriber, and quick Dispenser; at liberty beginning of October; numerous references. 182/7, Office of this Paper.

ISENGAGED end September; 3 years' Hospital experience; knowledge Photography; desires situation in provinces; mist or Institution; highest references. C. L. Compston, Turton Road, Bradshaw, Bolton.

ISENGAGED.—Qualified; Manager; London only; or Locum. "Chemist," 44 Devonshire Road, W.4.

ISENGAGED September 18, for Locum or permanency; Minor man; moderate terms; varied experience. "Pharmacist," 4 Sydney Road, Ealing, W.13.

ISENGAGED; part time; Assistant-Manager; unqualified; Window-dresser; age 44. "H. C. B." 345 Woolwich Road, Crickleton, S.E.7.

ISPENSER and Book-keeper, age 20, unqualified, with three years' experience, requires situation in Chemist's or Drug res; references; Lancashire district preferred. "S." 30 Ash Terrace, Dariwen, Lancs.

XPERIENCED Dispenser (Hall); ex-Service man, 28 years, married, requires post with Doctor, Chemist or Institute; E. London preferred. "L." 175 Harold Road, Upton Manor, E.13.

XPERIENCED Assistant; unqualified; middle-aged; steady and reliable; good references; outdoors. Jones, 69 Annesley Avenue, Colindale, Hendon, N.W.9.

XPERIENCED Manager seeks progressive post Buyer, Salesman, Prescriber; steady, energetic worker; business-like; references excellent; Midlands preferred. 185/3, Office of this paper.

UNIOR, age 20, seeks another year's experience; just finishing three years with large Dispensing Chemist; Counter and Photography. Apply J. Rubenstein, Ty-Isaf Villa, Llanelli.

UNIOR Assistant (qualified); tall; London or suburbs; good Counter and Dispensing experience, also Photography; excellent references. "R." 188/20, Office of this Paper.

ADY Dispenser and Book-keeper, Hall Certificate, desires post with Doctor or Chemist; small salary; at liberty now. 6/31, Office of this Paper.

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